# A PRELIMINARY LIST of the INSECTS of the PROVINCE OF QUEBEC

## Part I—LEPIDOPTERA

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WESTMOUNT

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## INTRODUCTION

Shortly after the Society was founded, three of our local entomologists, while partaking of lunch under a large tree near Macdonald College, discussed a subject that had been thought of many times before, namely, the need of a published list of the Insects of the Island of Montreal. It was there and then decided that if this could ever be accomplished our Society was the one to do it—the actual work of compilation to be voluntarily done by the members of the Society, with whatever assistance they could obtain from outside.

As President I fell in at once with the suggestion, and in my first Annual Address I laid before the Society the proposition, but altering and widening the scope of the List to embrace the Insect Fauna of the whole of the Province of Quebec. The Society unanimously concurred, and a committee was appointed consisting of Messrs. J. M. Swaine, G. Chagnon and A. F. Winn to proceed with the preparation of the List.

After several meetings, the plan as outlined in our report for 1910 was decided on and the latest edition (1909) of Dr. J. B. Smith's List of the Insects of New Jersey adopted as a model. Owing to various causes, including the removal of Mr. Swaine to Ottawa, it has been found impossible to make even a fairly representative showing in some of the orders; so it was thought best to issue it in parts as supplements to our annual reports—the present part comprising the Lepidoptera or Butterflies and Moths has been prepared by Mr. Winn, on whose extensive collection, and over twenty years active collecting the List is based.

The other parts to follow will be of uniform size and style, and when completed, will contain a part dealing with Injurious Insects and the best ways of controlling them, etc., and an Index. It is hoped that our list, though incomplete and imperfect like other first attempts, will prove useful to a great many persons directly and indirectly interested in Insect Life; and it should form a basis for future editions.

In order to make the list as complete as possible we would welcome any list of captures or even notes on single species of insects from any part of our Province, and due credit will of course be given to the sender. In short, we need all the help we can get and wish you to consider the list as partially contributed by you.

The number of distinct species of insects actually existing in a territory so large and varied as our Province is enormous, and a great many still remain undescribed; in fact, in several orders, there is probably no portion of the North American continent whose insect fauna has been less studied and made known than Eastern Canada.

Since our last meeting, the political boundaries of the province have been greatly extended. Unfortunately, our records of the insects of the newly-acquired territory are limited, but such as we have will be included.

We are under deep obligations to the Hon. Minister of Agriculture, Mr. J. E. Caron for his timely aid in publishing the list as an Appendix to the Annual Report of the Quebec Society for the Protection of Plants.

W. LOCHHEAD,

President of the Quebec Society for the Protection of Plants.

## EXPLANATION OF ABBREVIATIONS AND ACKNOWLEDGMENTS

For the sake of economizing space an arbitrary set of abbreviations has been adopted for the names of entomologists whose records have been included. The Roman numerals used indicate the month in which the adult insect was found. The abbreviations following generic and specific names are as usually printed in lists and no explanation is here given of these authors and their works. The cuts used to illustrate well-known insects of various families were kindly loaned by the Entomological Society of Ontario.

**B. Bowles, G. J.,** Montreal. Collected at Quebec and Montreal in all orders, particularly Lepidoptera. His collections are in Redpath Museum, McGill College. He published many papers in the early volumes of the Canadian Entomologist.

**Ba. Barwick, E. C.,** Montreal. Lepidopterist. Has a good collection made locally and furnished a list of species captured at Riviere du Loup.

**Be. Beaulieu, G.,** Ottawa, Hemipterist. While residing in Montreal made collections in various orders. A collection of beetles purchased from him is in Redpath Museum, McGill College.

**Bel. Belanger, l'Abbe, F. X.,** Quebec. Made collection of Lepidoptera some years ago, which he had named by Grote, Chambers and other specialists, and discovered several new species. His collection is in the Museum of Laval University, Quebec.

**Beth. Bethune, Rev'd C. J. S.,** Guelph, Ont. Editor emeritus of The Canadian Entomologist. A number of his papers give reference to captures made in this province. He has made a life-long study of Canadian insects.

**Bn. Boulton, A. R. M.,** Quebec. Lepidopterist. Has an extensive local collection of butterflies and moths.

**Btn. Brittain, William,** Macdonald College. Collects in all orders, making a special study of the Coccidae, of which he will publish the list.

**Br. Brainerd, Dwight,** Montreal. Lepidopterist. Has a local collection, with carefully prepared specimens of the preparatory stages of a large number of species.

**C. Chagnon, G.,** Montreal. Lepidopterist. Has a fine local collection in splendid condition particularly in the smaller species. Formerly interested in Diptera and Coleoptera, and the preparation of the parts dealing with these orders is left in his hands.

**Ca. Campbell, J. G.,** Magog. Collects local insects of all orders.

**Cd. Caulfield, F. B.,** Montreal. Made collections in all orders and published a good many papers and lists in The Canadian Entomologist and Canadian Record of Science. His collection of Coleoptera was purchased by the Natural History Society.

**Coup. Couper, William,** Montreal. Collected in all orders, used to make collecting trips to the Lower St. Lawrence, and his published lists have been made use of.

**D. Denny, Edward,** Montreal. Lepidopterist. Has a good local collection, especially Arctians, which he took a great interest in rearing.

**Des. Desrochers, Rev'd J. E.,** Rigaud, Que. Collects in all orders, a number of records have been furnished by Mr. Gibson and Mr. Chagnon.

**D'Ur. D'Urban, W. S. M.** Collected insects of all orders some years ago. Part of his collection is in the Redpath Museum, McGill College. Published several papers in The Canadian Naturalist, which have been made use of.

**E. Elliott, W. R.,** Sherbrooke. Lepidopterist. Has a local collection of butterflies and moths.

**F. Fletcher, Dr. James,** Dominion of Canada. It is entirely unnecessary to refer to the collections and work of the late Dr. Fletcher, the kindest and best beloved friend of Entomologists in all parts of Canada.

**Fy. Fyles, Rev'd T. W.,** Hull. Has collected for years, and still continues to do so, insects of all orders from the Province. Living for many years at Levis and South Quebec and before that at various places in the Eastern Townships, his knowledge and records of insects have been of great help. He also furnished a complete list of all the specimens contained in his collections and his published papers will always be reread with the kindliest recollections of this pioneer enthusiast. His collection of Lepidoptera is in the Provincial Museum at Quebec.

**G. Gibson, Arthur,** Ottawa. Lepidopterist. Chief Assistant Entomologist at Experimental Farms. Has sent regularly notes on specimens from this Province that were sent for determination, and has collected largely on the Quebec side of Ottawa River. Many of his published papers and his Annual Insect Record have been of great value.

**Gb. Gibb, Lachlan,** Montreal. Lepidopterist. Collections he has made in Canada have for the most part been presented to the South London Ent. Soc. of England. Always ready to help and encourage the younger collectors, he has been most successful in keeping up the interest and enthusiasm in Entomology about Montreal.

**Gr. Groh, H.,** Ottawa.

**H. Harrington, W. Hague,** Ottawa. His studies and knowledge of Canadian Hymentera are too well known to mention and his collections of the order, and of Coleoptera and Hemiptera are very complete. Has published many papers, the information in which has been freely made use of in this list.

**Hm. Hanham, A. W.** Spent several years at Quebec and collected largely, particularly Lepidoptera and Coleoptera and a good many of his important captures are recorded.

**Hu. Huard, Rev'd Victor,** Quebec. Editor of Le Naturalist Canadien. Takes a great interest in insects of all orders.

**J. Jean, Bro.,** Montreal. Collects Coleoptera and is in charge of the fine collection of the Deaf and Dumb Institute.

**Ja. Jack, John G.,** Jamaica Plains, Mass. When at his home in Chateauguay, was an enthusiastic collector and student of insects, and made a collection and published a number of notes of interest.

**Ly. Lyman, Henry H.,** Montreal. Lepidopterist. Has a large collection from all parts of North America and has published a great many papers in the Canadian Entomologist which have been of help in this list.

**M. Moore, Geo. A.,** Montreal. Collects Hemiptera of which he has the best collection in the Province. In course of his studies he hands over to others specimens of various other groups he happens to capture.

**Me. Metcalfe, W.,** Ottawa. An enthusiastic collector who has put on record a number of captures made at various points on the Quebec side of the Ottawa River.

**Mi. Mignault, Rev'd J. B.,** St. Therese de Blainville. Collects in all orders. A number of records of his captures have been furnished by Mr. Gibson, who identified the specimens.

**N. Norris, A. E.,** Montreal. Lepidopterist. Has a good local collection of Noctuids, mostly taken at sugar.

**O. Ouellette, C. J.** (C.S.V.), Montreal. An enthusiastic collector of Coleoptera, whose large collection is in the Museum of the Deaf and Dumb Institute.

**P. Provancher, l'Abbe L.** Former editor of Le Naturalist Canadien. Collected in all orders except Lepidoptera and discovered and described many new species. His collections are in the Provincial Government Museum at Quebec.

**R. Rowland, Alton,** Windsor Mills. Lepidopterist. Has furnished many records from the Eastern Townships.

**S. Swaine, J. M.** Formerly Professor of Entomology at Macdonald College, now in charge of Forest Insects at Experimental Farms, Ottawa. Collects assiduously in all orders, particularly the Coleoptera.

**Sa. Saunders, Dr. Wm.** Former editor of The Canadian Entomologist and Director of Experimental Farms. A collection made during a trip to Saguenay district is of interest.

**Sch., Schmidt, Dr. J.,** Anticosti. A number of records of his captures are noted in the pages of the Annual Reports of the Ent. Soc. of Ontario.

**So. Southee, G. A.,** Outremont. Lepidopterist. An active worker in this order and has furnished a number of records from Sherbooke and Newaygo.

**St. Stevenson, Charles,** Montreal. Formerly an enthusiastic collector of all orders.

**T. Tourchot, A. L.,** St. Hyacinthe, Que. Has a general collection of insects of all orders.

**V. Van Duzee, E. P.,** Buffalo, N. Y. Hemipterist. Has greatly helped Montreal collectors in this order, and determined the greatest part of the species.

**W. Winn, Albert F.,** Westmount. Lepidopterist. Has made general collections of most orders, in various parts of the Province, and in whose collection most of the species of Lepidoptera listed are represented.

**Wa. Walker, Dr. E. M.,** Toronto. Editor of The Canadian Entomologist. Collects principally Orthoptera and Odonata. Has furnished notes of species taken during visits to this Province.

**Y. Young, Chas. H.,** Ottawa. Has made most extensive collections at Meach Lake, especially among the Microlepidoptera and his setting of these minute creatures is perfect.

## PUBLISHED LISTS USED IN COMPILATION

**Bethune, Rev'd C. J. S.** Butterflies of Eastern Provinces of Canada. Annual Report Entomological Society of Ontario, 1894. 29.

**Bowles, G. J.** List of Geometridae from Quebec and Montreal. Canadian Entomologist XV 164.

**Bowles, G. J.** Lepidoptera taken at Quebec. Canadian Entomologist II, 95; III, 144.

**Caulfield, F. B.** List of Lepidoptera of Island of Montreal. Canadian Entomologist VII, 86, 241; VIII, 38; IX, 90.

**Chagnon, G.** Lepidoptera from St. Fabien, Que. Canadian Entomologist XLIII, 1.

**Couper, Wm.** Lepidoptera from Anticosti and North Shore of St. Lawrence. Canadian Entomologist IV, 201.

**Comeau, A. B.** Butterflies from Godbout River, Que. Canadian Entomologist VII, 208.

**D'Urban, W. S. M.** Insects taken in Rouge River district. Canadian Naturalist.

**Fletcher J. and Gibson, A.** Entomological Record 1901-1911; 32nd to 42nd Annual Reports Entomological Society of Ontario.

**Fyles, Rev'd T. W.** "The Rarer Butterflies of the Province of Quebec." Annual Report Entomological Society of Ontario, 1892. 29. "Sphingidae of Province of Quebec." Annual Report Entomological Society of Ontario, 1888. 23.

**Saunders, Dr. Wm.** Entomological Notes during a trip to the Saguenay. Canadian Entomologist. I. 11.

**Winn, A. F.** Lepidoptera taken at Little Metis, Que. Canadian Entomologist XXIII, 80.

## Order LEPIDOPTERA

This order contains the butterflies and the moths which are characterized by the fact that the wings are covered with scales overlapping like shingles on a roof. The butterflies are all day fliers and by their bright colours and beautiful markings are among the most attractive things in nature as they flit from flower to flower. The moths, for the most part, are nocturnal. They have two pairs of wings both used in flight, and the mouth parts are developed into a tube-shaped tongue, which is coiled up like a watch spring when not in use. They can only take food in a liquid form. The metamorphosis is complete, the larvae being known as caterpillars, in which stage the mouth parts are well adapted for chewing leaves, etc., and as larvae alone can they be injurious to vegetation.

The order is, for convenience, often divided into the Rhopalocera or Butterflies, known by the club or knob on end of antennae, and by the wings, or at least the forewings, being held erect while at rest; and the Heterocera or moths with filaform or feathered antennae, and the wings held in various other ways, inclined like a roof, held flat over the body or expanded out flat. Sometimes the Sphingidae or hawk moths are made an intermediate division, and the "swift moths" Hepialidae might equally be put apart from others under the name Jugatae.

## Family PAPILIONIDAE

The members of this family are known by the common name of Swallow-tails on account of the tail-like extension of the hindwings. They are all butterflies of large size and conspicuous colours and markings. The legs are all perfectly developed—the larvae are possessed of fleshy extensile processes of a reddish-orange colour which, when distended, produce a disagreeable odour, that is supposed to protect them from their foes; the pupae are suspended laterally by a band of silk around the middle as well as the usual button of silk at the anal extremity.

Fig. 1.
*Papilio turnus.*

### PAPILIO Linn.

**P. brevicauda** Saund. Common along both shores of the Lower St. Lawrence, Percé (Coup); Godbout River VI (Coup); Metis VII-VIII (W); Bic, Kamouraska (W); food plants: archangelica, water hemlock, parsley.

**P. polyxenes** Fabr. Throughout the Province west of Quebec City, which appears to be about the boundary between this insect and the foregoing, Levis (Fy); East Bolton VII (W); St. Hilaire V (W); Montreal V-IX (W); Hudson V (Ch); Grenville V (D'U), Aylmer (F); food plants: parsley, carrot, celery. Two or more broods in a season.

**P. thoas** Linn. Occurrence in the Province very occasional, recorded only from Chateauguay VIII (Jack); and none have been seen recently; food plant: prickly ash; in the south, orange, the larva being known as the " Orange Dog."

**P. turnus** Linn. Throughout the Province, Tadousac VII (Sa); Metis VII (W); Godbout River (Coup); Quebec VI (Fy); Phillipsburg VI (W); St. Hilaire V-VI (W); Montreal V-VI (W); Shawbridge VI (W); St. Adele VI (W); Rouge River VI (D'U); food plants: cherry, willow, apple, thorn, bass, oak, plum.

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## Family PIERIDAE

This family includes the cabbage butterflies, or " whites " which are most serious pests of the cabbage, and the Sulphur butterfly which reduces yearly the clover crops by a large percentage. The three pairs of legs are all developed, the colour of wings is either white, yellow or orange. The caterpillars are usually green and smooth, without processes or spines, the chrysalids suspended in the same manner as in the Papilionidae.

### PIERIS Schrank

**P. napi** Linn. (Oleracea Bdv.) Appears to be becoming scarcer than formerly, but found throughout the Province, and more generally at edges of woods than in open fields, Metis VII-VIII (W); Rimouski (Gb); Montreal V-IX (W); St. Hilaire V (C); Windsor Mills VII (R); East Bolton VII (W); Lost River VI (Gb); Montford VI (W); Vaudreuil V (S); food plants: cruciferae.

**P. protodice** Bdv. Taken many years ago at Lachine by Dr. Barnston, but has not been recorded recently in the Province, though two specimens were taken at Ottawa in 1905; food plant: cabbage, etc.

**P. rapae** Linn. Common everywhere May to October. The imported white butterfly; food plants: cabbage, nasturtium, mignonette.
var. **immaculata.** Skin, and Aaron, common in spring, the black spots being very faint.
var. **nov angliae** Scud. Occurs occasionally. This variety has the ground colour of wings, lemon yellow instead of white.

Fig. 2.
*Pieris rapae*, male.

Fig. 3.
*Pieris rapae*, female.

### COLIAS Fabr.

**C. eurytheme** Bd-Lec. Rarely taken. Metis VIII (W); Quebec IX (B); Cowansville (Fy); Montreal VIII-IX (Denny); Mayo VIII (Richard); food plant: clover.

**C. interior** Scud. Godbout River VII (Coup); Levis VII-IX (Fy); Buckingham VII (F); Baskatong VII (G); food plant: vaccinium canadense.

**C. philodice** Godt. Metis VII-VIII (W); Godbout River VII (Coup); Tadousac VII (Sa); Cacouna VII (Sa); Levis (Fy); Montreal V-X (W); East Bolton VII (W); Grenville VI (D'U); Newaygo VI (So).
var. **albinic** Skin. A greenish white form of female occurs everywhere.
var. **luteitincta** Wolcott. An orange tinted variety, St. Lamberts VIII (W).
Food plant: clover.

### TERIAS, Swains

**T. lisa** Bdv. Occasional, Montreal VII (W); East Bolton VII (W); food plant: clover.

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## Family NYMPHALIDAE

These are the four-footed butterflies, the front pair of legs not being of use in walking and are brush-like. The larvae are mostly striped or spotted, and covered with spines. The pupae hang vertically, being suspended only by a button of silk. They are often ornamented with spots of gold or silver.

### DANAIS Latr.

**D. plexippus** Linn. Very abundant some seasons, almost or quite absent in others. Probably never winters in Canada, the summer broods resulting from eggs laid by migrants in early June, Quebec (B); Montreal VI-IX (W); Chateauguay (Jack); East Bolton VII, VIII (W); food plants: milkweed.

Fig. 4.
*Danais plexippus.*

### EUPTOIETA, Doubl.

**E. claudia** Cram. Occasional in late summer, Montreal IX (W); Chateauguay VIII (Jack); food plants: violets, sedum, desmodium, portulacca.

### ARGYNNIS Fabr.

**A. atlantis** Edw. Common at blossoms of thistle, etc., Metis VII-VIII (W); Anticosti (Bethune); Godbout River VII (Coup); Montreal VII (W); East Bolton VII (W); St. Margaret VII-VIII (W); Quebec VII-VIII (Fy); Baskatong VII (G); food plant: violets.

**A. aphrodite** Fabr. Metis VII (W); Quebec (B); Sorel, Chateauguay VII (J); Montreal VI, VII (W); St. Margaret VII (W); Baskatong VII (G); food plant: violets.

**A. bellona** Fabr. Godbout River VI (Coup); Murray Bay VII (W); Quebec (B); Montreal V-VI and VIII-IX (W); East Bolton VIII (W); Farnham (Fy); Chateauguay VII (Jack); Hudson V (W); food plant: violets.

**A. cybele** Fabr. Metis VII (W); Quebec VII-VIII (Fy); Montreal VI-VII-VIII (W); Chateauguay VII (Jack); East Bolton VII (W); Baskatong VII (G); St. Margaret VII (W); food plant: violets.

**A. charielea** Schneid. Mingan VII (Beth); Murray Bay VII (W); food plant: violets.

**A. freija** Thunb. Gomin Swamp, near Quebec IX (Fy).

**A. myrina** Cram. Metis VII (W); Godbout River VII (Coup); Cacouna VII (Sa); Quebec (B); Montreal V-IX (W); Chateauguay VII (J); East Bolton VII-VIII (W); Baskatong VII (G); Newaygo VI (W); food plants: violets.

**A. triclaris** Hubn. No actual record from Province, but occurs at Mer Bleue, near Ottawa, and doubtless in similar northern swamps in northern parts of Quebec.

### PHYCIODES Doubl.

**P. batesii** Reak. Godbout River VII (Coup); Hull VI (G).

**P. nycteis** Dbl., Hew. Saguenay (Beth); St. Fabien VII (C); Levis (Fy); Montreal VI (W); St. Hilaire VII (C); Chateauguay VII (J); St. Therese VII (W); food plants: aster, sunflower.

**P. tharos** Dru. Anticosti (Beth); Metis VII (W); Ha-Ha Bay VII (Sa); Riv. du Loup VI (Ba); Levis (Fy); St. Hilaire VI-VII (W); Montreal VI-VII (W); Baskatong VII (G); Kingsmere VIII (G); Rouge River VI (D'U); Chateauguay VII (J); food plant: asters.

### MELITAEA Fabr.

**M. harrisii** Scud. In swampy fields, Gaspe (Beth); Ha-Ha Bay VII (Sa); Levis VI-VII (Fy); Montreal VI (W); food plant: white aster.

**M. phaeton** Dru. Found in swamps wherever its food plant, the turtle-head, grows, Levis VI (Fy); Sherbrooke VII (So); St. Johns VI (C); Brome Co. (Fy); Montreal VI-VII (W); St. Margaret VII (W); Hudson VI (S); Kingsmere VII (G); food plants: turtle-head, the larvae winter gregariously in a web on the plant.

### GRAPTA Kirby

**G. comma** Harr. Quebec (B), Cowansville (Fy); Compton (Gosse); East Bolton VII (W); Chateauguay (J); St. Johns VII (C); Montreal IV-V (hibernated), VII-X (W); food plants: elm, hop.

**G. faunus** Edw. Metis VIII (W); Rimouski VIII (Gb); Quebec (B); East Bolton VII (W); Montreal V (Hib), VII-IX (W); food plants: willow, gooseberry, alder, birch, currant.

**G. gracilis** G. & R. Gaspe (Ly); Anticosti (Sch); Metis VIII (W); Rimouski VIII (Gb); Levis VIII-IX (Fy); Kamouraska VIII (W); food plant: currant.

**G. interrogationis** Fabr. Quebec (B); Compton (Gosse); St. Hilaire VII (C); East Bolton VII (W); Montreal V (hibernated) VII-XI (W); St. John's VII (C); Chateauguay VII (W); food plants: elm, hop, bass.

**G. J-album** Bd-Lec. Metis VII (W); Godbout River IX (Coup); Lorette (Fy); St. Hilaire V (W); Phillipsburg VI (W); East Bolton VII (W); Windsor Mills VII (W); Montreal IV-V (hibernated), VII-X; food plants: white birch, elm.

**G. progne,** Cram. Anticosti VI (Coup); Metis VII-VIII (W); Godbout River V (hibernated) (Coup); Rimouski VIII (Gb); Cowansville (Fy); East Bolton VII (W); St. Hilaire V, VII-VIII (W), Montreal IV-V (hibernated) VII-X (W); Hudson V (So); Kingsmere VIII (G); food plants: gooseberry, currant, birch, elm.

**G. satyrus** Edw. Metis VIII (W); High Falls VII (Sa); St. Hilaire VII (W); Brome Co. (Beth); Chateauguay VIII (Pearson); food plant: hop.

### VANESSA Fabr.

**V. antiopa** Linn. Common everywhere, the first butterfly to show itself in spring and last to retire in the fall. Godbout River VII (Coup); Metis VII-VIII (W); Quebec (B); Rimouski (Beth); Phillipsburg VI (W); Montreal III-V, hibernated, VII-XI (W); Hudson V (W); St. Margaret VII (W); Chateauguay VII (J); food plants, willow, elm, poplar.

**V. milberti** Godt. Godbout River V (Coup); Metis VII-VIII (W); Ha-Ha Bay VII (Sa); Island of Orleans VII (Fy); Oka VII (W);Hudson VII (W); Chateauguay VII (J); Montreal IV-V (hib.), VII-X (W); East Bolton VII (W); River Rouge (D'U); Baskatong VII (G); food plant: nettle.

### PYRAMEIS Doubl.

**P. atalanta** Linn. The well known " Red Admiral " of English authors. Fox Bay, Anticosti (Coup); Godbout River VII (Coup); Metis VII-VIII (W); Levis (Fy); East Bolton VII (W); Montreal VI (hibernated), VII-IX (W); Chateauguay VII (J); Hudson VII (W); Rigaud VII (W); food plant: nettle, the caterpillars rolling the edges of leaves together and living within.

**P. cardui** Linn. The thistle-butterfly, also known as the Painted Lady. Metis VIII (W); Godbout River VI (hibernated), (Coup); Cacouna VII (Sa); Quebec (B); Montreal V-VI (hibernated) VII-X (W); Chateauguay VII (W); food plants: thistle, hollyhock, sunflower, burdock.

**P. huntera** Fabr. Metis VIII (W); Godbout River VII (Coup); Island of Orleans VIII (Fy); Cowansville (Fy); East Bolton VII (W); Montreal V (hibernated), VII-X (W); food plants: gnaphalium, thistle, nettle, burdock, sunflower.

### LIMENITIS Fabr.

**L. arthemis** Drury. One of our most conspicuous and abundant butterflies particularly among the Laurentian Mts. Metis VII-VIII (W); Godbout River (Coup); Quebec VII (W); Sherbrooke (Beth); East Bolton VII (W); Phillipsburg VI (W); Chateauguay VII (J); Montreal VI-VII (W); Arundel VI-VII (D'U); Newaygo VII (So); Kingsmere VII-VIII (G); Hull VI-VII (H); food plants: hawthorn, bass, choke-cherry, aspen, birch, plum.

**L. disippus** Godt. Metis VII (W); Sherbrooke VII (So); Windsor Mills VI (W); East Bolton VII (W); Chateauguay VII (J); Montreal VI-IX (W); Montford VI (W); Meach Lake VI (Y); food plants: willow, poplar, plum, apple-oak.

### CHLORIPPE Boisd.

**C. celtis** Bd. Lec. 1 specimen taken in July at Outremont (near Montreal), probably an accidental introduction with nursery stock; food plant: hackberry.

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## Family SATYRIDAE

These are the "Wood nymphs" or "Ringlet" butterflies, modestly coloured brownish-winged insects, ornamented with ring shaped marks, or eye spots. The forelegs are imperfectly developed as in the previous family. The larvae all feed on grasses, the pupae are suspended by the tail only.

### DEBIS Westwood

**D. portlandia** Fabr. Found in woods, the butterfly escaping quickly from view by the rapid way in which it settles and closes its wings on a tree trunk. Levis VII-VIII (Fy); St. Hilaire VII (W); Compton (Gosse); St. Johns VII (C); Montreal VII (W); River Rouge VII (D'U); Chelsea VII (G); Baskatong VII (G); food plants: grasses.

### NEONYMPHA Westwood

**N. canthus** Linn. Found principally in swampy meadows. Quebec (B); Compton (Gosse); Montreal VI-VII (W); Chateauguay VII (J); Hull VII (H); food plants: grasses and sedges.

Fig. 5
*Neonympha canthus.*

**N. eurytus** Fabr. Quebec VI-VII (Fy); Eastern Townships (Beth); Windsor Mills VI (W); Chateauguay VII (J); Phillipsburg VI (W); Montreal VI (W); Oka VI (W); Shawbridge VI (W); food plants: grasses.

### SATYRUS Westwood

**S. alope** Fabr. var. **nephele** Kirby. Metis VII (W); Quebec VII-VIII (Fy); Sherbrooke VII (So); East Bolton VII (W); Montreal VII (W); St. Margaret VII-VIII (W); food plants: grasses.

### COENONYMPHA Hübner

**C. inornata** Edw. Only taken so far in the Laurentian Mts. St. Margaret VI-VII (W); St. Agathe VI (Gb); Piedmont VI (N); St. Faustin VI (W); food plants: grasses.

### OENEIS Hübner

**OE. jutta** Hubn. Gomin swamp, near Quebec City VI (Fy); Langevin VII (Richard); food plant: sedges.

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## Family LYCAENIDAE

The butterflies comprised in this family are small species, commonly known as "hair-streaks," "blues" and "coppers." The forelegs in the females are completely developed, in the males they are more or less brush-like. The caterpillars are slug-like and the chrysalids are attached similarly to those of the swallow-tail and whites, a band of silk around the centre in addition to the button at the tail.

### THECLA Fabr.

**T. acadica** Edw. Montreal VII (Ly); Rosemere VII (W); Cowansville (Fy); food plant willow.

**T. augustus** Kirby. Gomin Swamp, near Quebec, V-VI (Fy); Montreal V (W); St. Hilaire V (W); Hudson V (W); food plants: sheep-laurel, blueberry.

**T. calanus** Hubn. St. Hilaire VII (W); Montreal VII (W); East Bolton VII (W); Hull VII (H); food plants: oak, hickory, butternut.

**T. henrici** G. and R. One specimen taken at Montreal (Caulfield); food plant, blueberry.

**T. laeta** Edw. Quebec (B); St. Joachim V (Fy); St. Hilaire V (W); Lost River V (Gb); Meach Lake (Y); food plant: unknown.

**T. niphon** Hubn. St. Hilaire V (W); Sorel V; Montreal V-VI (W); Hudson V (S); Rigaud V (Des); Chelsea (F); Montebello VI (W); food plant: white pine.

**T. irus** Godt. Anticosti (Schmidt).

**T. strigosa** Harr. Island of Orleans (Fy); Rigaud VII (C); Montreal VII (W); food plants: thorn, plum, apple, oak.

**T. titus** Fabr. Quebec VII (Fy); North Hatley VIII (M); Sherbrooke VII (So); St. Hilaire VII (W); Oka VII (Fy); Montreal VII-VIII (W); Baskatong VII (G); food plants: willow, oak, plum, cherry.

### FENISECA Grote

**F. tarquinius** Fabr. Island of Orleans VII (Fy); East Bolton VII (W); North Hatley VII (M); Montreal V, VII-IX (W); Hudson V (So); St. Margaret and throughout Laurentian Mts. (W); Hull V (Hm); food: carnivorous, larva feed only on plant lice on alder.

### CHRYSOPHANUS Dbl.

**C. epixanthe** Bd-Lec. Gomin Swamp, near Quebec VII-VIII (Fy); Montreal VII; food plant: cranberry.

**C. hypophleas** Bd. Metis VII-VIII (W); Cacouna VII (W); Quebec (B); Sorel (Beth); East Bolton VII-VIII (W); Montreal V-X (W); Shawbridge VI (W); St. Margaret VII-VIII (W); food plant: sorrel.

**C. thoe** Bd. Quebec (Fy); East Bolton VII (W); Eastern Townships (Beth); St. Hilaire VIII-IX (C); Montreal VI, VIII-IX (W); food plant: dock.

### LYCAENA Fabr.

**L. comyntas** Godt. St. Hilaire V-VI (W); Montreal V-VIII (W); Chateauguay VII (J); Aylmer VI (G); food plants: desmodium, clover, lathyrus.

Fig. 6.
*Lycaena comyntas.*

**L. couperi** Grote. Metis VII (W); St. Fabien VII (C); Godbout River VI (Coup); Levis VI (Fy); food plant: vetch (vicia cracca).

**L. pseudargiolus** Bd-Lec. Anticosti (Beth); Godbout River VI (Coup); Metis VII (W); St. Hilaire V (W); Levis (Fy); Montreal IV-IX (W); Hudson V (W); Rigaud VII (W); Newaygo V (So). The forms lucia, Kirby and violacea, Edw. occur in early spring, producing the large and paler blue summer form neglecta, Edw.; food plants: dogwood, sunflower, willow.

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## Family HESPERIDAE

The butterflies of this family are commonly known as " skippers " on account of their jerky, low flight, dropping suddenly to rest on a leaf with the hind wings held flat while the forewings are raised almost vertically. All three pairs of legs are fully developed. The larvae of most species feed on grass, and have unusually large heads, separated from the body by a distinct neck. The pupae are often enclosed in a slight cocoon made by drawing a few leaves together.

### ANCYLOXYPHA Feld.

**A. numitor** Fabr. Found only on Southern borders of our Province, frequents roadside ditches. West Shefford VIII (Fy); food plant: grass.

### CARTEROCEPHALUS Lederer.

**C. mandan** Edw. Generally distributed, but nowhere common. Fox Bay, Anticosti VI (Coup); Godbout River VII (Coup); St. Fabien VII (C); Levis VI (Fy); Quebec (B); Bergerville VI (Hm); Stoke Centre VI (W); Compton (Gosse); Sherbrooke VII (So); St. Johns VI (C); St. Adele VI (N); Montcalm Co. (D'U); food plant: grass.

### PAMPHILA Fabr.

**P. cernes** Bd-Lec. Metis VII (W); Rimouski VIII (Gb); Levis (Fy); Eastern Townships (Beth); Montreal VI-VII (W); Hull VI (Fy); St. Hilaire VI-VII (W); Chateauguay VII (J); food plant: grass.

**P. comma** Linn. var, **manitoba** Scud. Gaspe VIII (Ly) Metis VIII (W) Riviere du Loup (Coup); Island of Orleans VIII (W); Cap a l'Aigle VIII (W); Levis VIII (Fy); St. Hubert VIII (W); food plant: grass.

**P. hobomok** Harr. Quebec VI (Fy); Sherbrooke VII (So); Cowansville (Fy); Phillipsburg VI (W); St. Hilaire V-VI (W); Montreal V-VII (W); Hudson V-VI (W); Hull VI (Fy); Montebello VI (W); Labelle VI (W); Newaygo VI (So). The dark form of female, pocahontas, Scud, also occurs throughout its range; food plant: grass.

**P. manataaqua** Scud. Beaver Meadow, Hull VI (Fy).

**P. leonardus** Harr. A species late in appearing. Montreal VIII (W); Hull; Chelsea VIII (F); Chateauguay VIII (J); food plant: grasses.

**P. metacomet** Harr. Levis VII (Fy); St. Hilaire VI-VII (C); Montreal VI-VII (W); East Bolton VII (W); Rigaud VII (W); Rosemere VII (W); food plant: sedges.

**P. mystic** Scud. Found only in swampy fields. Quebec VII (Fy); Cacouna VII (Sa); Ha-Ha Bay VII (Sa); Montreal VI-VII (W); Chateaugay VII (J); East Bolton VII (W); food plant: sedges.

Fig. 7.
*Pamphila mystic.*

**P. peckius** Kirby. Metis VII (W); Quebec VII (Fy); Cowansville (Fy); Montreal VI-VII (W); Kingsmere VII-VIII (G); food plants: grasses.

**P. otho** A and S. var. **egeremet** Scud. Eastern Townships (Fy).

### AMBLYSCIRTES Speyer

**A. samoset** Scud. Levis (Maxwell); St. Davids VII (Hanham); Eastern Townships (Beth); Montreal VI (W); Montfort VI (W); St. Faustin VI (W); Chelsea V (G).

**A. vialis** Edw. Eastern Townships (Beth); Montreal VI (Ly); Calumet VI (W); Montfort VI (C); Hull VI (Fy); Chelsea VI (G); Montebello VI (W); food plant: grass.

### NISONIADES Speyer

**N. brizo** Bd-Lec. Quebec (B); St. Hilaire V (W); Montreal V-VI (W); Hudson V (W); Calumet VI (W); food plants: scrub oak and hounds-tongue.

**N. icelus** Lintn. Quebec VI (Fy); Windsor Mills VI (W); Montreal VI (W); food plants: willow and aspen.

**N. juvenalis** Fabr. No actual records, but has been taken at Ottawa, and doubtless occurs on both sides of the River. Food plants, oak and various leguminous plants.

**N. lucilius** Lintn. St. Hilaire V (W); Montreal V-VI (W); food plants: columbine, willow, poplar, lamb's-quarter.

**N. persius** Scud. A species always common in May at flowers of wild columbine. Ha-Ha Bay (Sa); St. Hilaire V (W); Riviere du Loup VI (B); Montreal V (W); Hudson V (W); Newaygo V (So); food plants: willow and poplar.

### PHOLISORA Speyer

**P. catullus Fabr.** Quebec and Eastern Townships (Beth); food plant: lamb's quarter.

### EUDAMUS Swains.

**E. pylades** Scud. Quebec (B); St. Hilaire VI (W); Phillipsburg VI (W); St. Johns VI (C); Montreal VI (W); St. Margaret VI (W); food plant: clover.

**E. tityrus** Fabr. Quebec VI-VII (B); St. Hilaire VII (W); Montreal VI-VII (W); Chateauguay VII (J); food plants: locust, hog peanut, lathyrus.

**Note.**—A number of butterflies of the Arctic fauna will probably be found on the border of Labrador and within the new northern limits of this Province, but for want of records of actual capture these have been omitted.

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## Family SPHINGIDAE

These are commonly known as Hawk-moths from their long narrow wings, their rapid flight and the habit of poising in the air while at a flower. Most of the species fly just at dusk, but a few, such as the "bee-hawks" and "humming-bird" moths visit the flowers in the brightest mid-day sun. The tongues are very long—the body usually heavy and conical. The larvae are generally green in color, with oblique stripes and have a curved horn on the back at the end, giving the larva a formidable appearance. For pupation most of the larvae enter the ground a few inches and make for themselves an earthen cell by twisting about.

### HEMARIS, Dalm.

**H. diffinis** Boisd. Quebec VI (Fy); St. Fabien VII (C); Montreal VI-VII (W); Lost River V (Gb); Hudson V (W); Calumet VI (W); food plants: honeysuckle, snowberry, dogbane.

**H. gracilis** G. and R. Quebec VI (B); food plant: probably sheep laurel (Kalmia) (W).

**H. thysbe** Fabr. Fox Bay, Anticosti (Coup); Quebec (Fy); Compton (Gosse); Eastmans VI (W); St. Hilaire V-VI (W); Montreal V-VI, (W); Lost River V, (Gb.); Montebello VI (W); Montfort VI (C); St. Agathe VI (W); The variety ruficaudis Kirby (uniformis G. and R.) also occurs with the type; food plants: viburnum, honeysuckle, snowberry.

### LEPISESIA Grote

**L. flavofasciata** Walk. Ormstown VI (R. MacDougall); Meach Lake V-VI; (J); food plant: epilobium.

### AELLOPOS Hubn.

**A. tantalus** Linn. Cushing VI (Cush); Montreal VI (W); an occasional visitor from the south.

### AMPHION Hubn.

**A. nessus** Cram. Quebec V-VI (Fy); St. Hilaire V (So); Mt. Johnson V (W); Montreal V-VI (W); Lost River V (Gb); Rosemere V-VI (W); Montebello V (W); Newaygo VI (So); foodplants: grape, epilobium, woodbine, virginia creeper.

### DEILEPHILA, Ochs.

**D. galii** Rott. Fox Bay, Anticosti (Coup); Quebec VI (Bn); Brome and Missisquoi Co. V-VI (Fy); St. Hilaire VI (Cd); St. Johns VI (C); Montreal VI (W); Rosemere VI (W); Calumet VI (W). Food plants: epilobium, grape.

**D. lineata** Fabr. Cowansville (Fy); East Farnham VI (Fy); Montreal VI-VII (W); foodplant: purslane.

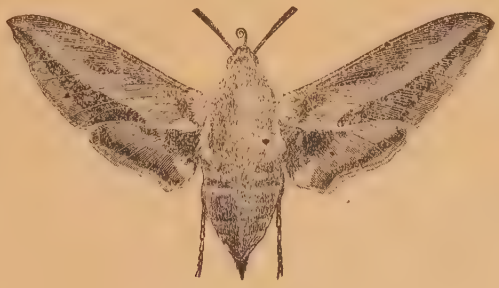

Fig. 8.
*Deilephila galii.*

### PHOLUS Hubn.

**P. achemon** Dru. Brome and Missisquoi Cos. (Fy); Montreal VI (W); Vaudreuil VI (W); Hull VI (F). Food plants: grape and virginia creeper.

**P. pandorus** Hubn. St. Lambert (W); Como (Fy); food plants: grape and virginia creeper.

### AMPELOPHAGA Brem and Grey

**A. choerilus** Cram. So. Quebec (Fy); Como (Fy); St. Johns (C); Montreal VI (W); food plants: azalea, viburnum.

**A. myron** Cram. Levis (Fy); St. Hilaire VII (W); Montreal VI and VIII (2 broods) (W): food plants: grape, virginia creeper.

**A. versicolor** Harr. Iron Hill (Brome Co.) (Fy); Montreal VII (Wintle); food plants: nesaea verticillata, cephalanthus.

### DILOPHONOTA Burm.

**D. ello** Linn. A migrant carried from the south by fall winds. Montreal IX (W).

### PHLEGETHONTIUS Hubn.

**P. cingulata** A. and S. Another southern visitor. Hull IX (Fy); foodplants: convolvulus ipomaea.

**P celeus** Hubn. (5 maculata Harr). Cowansville VII (Fy); Farnham (Fy); food plants: potato and tomato.

### SPHINX Linn.

**S. canadensis** Boisd. Metis VII (Reford); Quebec VI-VII (Bn); Sherbrooke VII (So); Dunham Co. (Fy); Montreal VII (Ba).

**S. chersis** Hubn. Levis (Fy); Compton (Gosse); East Bolton VII (W); Montreal VI-VII (W); Hull VI (Fy); food plants: ash, lilac, privet.

**S. drupiferarum** A & S. East Bolton VI (W); St. Johns VII (C); St. Hilaire VI (W); Montreal VI (W); food plants: plum, wild cherry, apple.

**S. eremitus** Hubn. Cowansville (Fy); Montreal VI (W); food plants: mint, bergamot, salvia.

**S. gordius** Stoll. Riviere-du-Loup VI (Ba); Quebec VI (B); East Bolton VII (W); St. Hilaire VI (W); Montreal VI-VII (W); Rosemere VI (W); food plants: apple, sweet fern, pear, ash, birch.

**S. kalmiae** A & S. St. Fabien VII (C); Levis (Fy); Compton (Gosse); Montreal VI (W); Hull VI (Fy); food plants: ash, lilac.

**S. luscitiosa** Clem. Metis VII (Reford); Montreal VI-VII (W); food plants: poplar, willow, blueberry.

### DOLBA Walk.

**D. hylaeus** Drury. Dunham Co. VII (Fy); food plants: ink berry (Prinos), sweet fern.

### CERATOMIA Harr.

**C. amyntor** Gey. Quebec VI (B); Farnham (Fy); Montreal VI (W); food plants: elm, linden, white birch.

**C. undulosa** Walk. St. Fabien VII (C); St. Johns VI (C); Quebec and Eastern Tps. (Fy); Montreal VI (W); food plants: ash, locust, lilac.

### LAPARA Walk.

**L. bombycoides** Walk. Quebec VI (B); Cowansville (Fy); St. Johns VII (C); St. Hilaire VII (So.); Montreal VI (W); food plant: white pine.

### MARUMBA Moore

**M. modesta** Harr. Quebec (Bn); Sherbrooke (Fy); St. Hilaire VII (C); Montreal VI (W); Hull (F); Windsor Mills VI (R); food plant: balm of Gilead poplar.

### SMERINTHUS Latr.

**S. geminatus** Say. St. Fabien VII (C); Quebec VI-VII (B); Compton (Gosse); Missisquoi Co.(Fy); Montreal V-VI (W); St. Hilaire VI (W); Hull VI (F); food plants: wild cherry, apple, ash, poplar, willow, elm, hazel, plum.

**S. cerisyi** Kirby. Cowansville (Fy); Montreal VI (W); food plant: willow.

### PAONIAS Hubn.

**P. excaecatus** A. & S. Quebec VI-VII (B); Eastern Tps. (Fy); St. Johns VII (C); St. Hilaire VI-VII (C); Montreal VI (W); Newaygo VI-VII (So); Hull VI (F); food plants: apple, plum, willow, cherry.

**P. myops** A. & S. Cowansville (Fy); East Bolton VII (W); Montreal VI. (W); food plant: cherry.

### CRESSONIA G. and R.

**C. juglandis.** Cowansville VI (Fy); Quebec (Fy); Montreal VI (W); Meach Lake VI (Y); food plants: hickory, butternut, wild cherry.

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## Family SATURNIIDAE

These are silk-worm moths, among which are the largest of our species, some expanding up to 6 inches or more across the wings. The bodies are heavy and mouth parts not developed for feeding. The caterpillars spin silken cocoons in which the pupa passes the winter.

### ACTIAS Leach

**A. luna** Linn. One of our most beautiful species. The green wings whose hind margins are extended into two long tails, are edged along the costa with purple, contrast with the fluffy white body, and make the insect look like a southern one. Island of Orleans (Fy); Lorette (Miss Freeman); St. Johns V-VI (C); St. Hilaire V (W); Montreal V (W); Hudson V (W); Calumet VI (W); Shawbridge VI (W); food plants: hickory, walnut, butternut, birch.

Fig. 9.
*Actias luna.*

### TELEA Hubn.

**T. polyphemus** Cram. Ha Ha Bay VII (Sa); Kamouraska VII (W) Brome Co. (Fy); Montreal V-VI (W); St. Hilaire VI (W); Windsor Mills VI (R); food plants: bass, maple, birch, willow, hazel, apple, wild cherry.

### SAMIA Hubn.

**S. cecropia** Linn. Our largest moth. Quebec VII (Fy); Lotbiniere (B); Iron Hill (Fy); St. Hilaire VI (W); St. Johns VI (C); Montreal VI (W); food plants: apple, hawthorn, willow, cherry.

**S. columbia** Smith. Quebec (B); Danville (Cd); Montreal VI (Pearson); Two Mountains Co. (Oswald); food plant: larch.

### HYPERCHIRIA Hubn.

**H. io** Fabr. Metis VII (W); Cowansville (Fy); East Bolton VI (W); St. Johns VI (C); Montreal V-VI (W); St. Hilaire VI (W); Meach Lake VI (Y); food plants: willow, maple, birch, choke-cherry, oak, bass, elm, apple, corn.

### CALLOSAMIA Pack.

**C. promethea** Dru. East Farnham (Fy); St. Hilaire VI (W); Montreal VI (W); Rigaud VI(W); food plants: ash, lilac, cherry, poplar, apple, plum.

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## Family CERATOCAMPIDAE

These are also large moths, but with much narrower and more pointed wings than the preceding. The antennae are only feathered at the base. The caterpillars are furnished with stiff horns, and go into the ground to pupate.

### EACLES Hubn.

**E. imperialis** Dru. Hull VI (W. H. G. Garioch); food plants: oak, maple, pine, birch, cherry, elder.

### DRYOCAMPA Harr.

**D. rubicunda** Fabr. Quebec VII (Ly); Cowansville (Fy); East Bolton (W); Compton (Gosse); Sherbrooke VII (So); Sorel XII (W); Montreal VI-VII (W); Hudson VI (W); Rosemere VI (W); foodplant: maple.

### ANISOTA Hubn.

**A. senatoria** A. & S. Quebec VII (Hanham); Montreal VI (W); food plant: oak.

**A. virginiensis** Dru. Cape Tourment (Bn); Island of Orleans (Fy); St. Johns VII (W); Calumet VI (W); Miranda VI (Miss Johnson); Hull (Fy); Chelsea VI (G); food plant: oak.

## Family SYNTOMIDAE

A small family of lightly-built moths mostly blue, black and yellow in colour, with long cylindrical bodies. Antennae of males pectinated.

### LYCOMORPHA Harr.

**L. pholus** Dru. Levis (Fy); St. Hilaire VIII (W); Windsor Mills VII (R); East Bolton VII (W); St Johns VII (C); Montreal VII-VIII (W); food plants: lichens on rocks.

### SCEPSIS Walker

**S. fulvicollis** Hubn. Iron Hill (Fy); St. Hilaire VII (W); Montreal VII-VIII (W); food plant: grass.

### CTENUCHA Kirby

**C. virginica** Charp. Metis VII (W); Levis (Fy); Ha Ha Bay VII (Sa); Cap a l'Aigle VIII (W); East Bolton VII (W.; St. Hilaire VI-VII (W); Compton (Gosse); Chateauguay VII (J); Montreal VI-VII (W); Rigaud VII (W); Shawbridge VII (W); Newaygo VII (So.); St. Faustin VII (W); food plants: coarse grasses.

## Family LITHOSIIDAE

This family contains small moths, with narrow forewings and broad hindwings. Mouth part developed. Differ from the "Arctians" in not possessing simple eyes. The larvae feed on lichens.

### CRAMBIDIA Pack.

**C. pallida** Pack. St. Johns VII (C).

### LEXIS Wallen

**L. bicolor** Grote. St. Davids' (Fy); East Bolton VII (W); Windsor Mills VI (R); Montreal VII (W); food plant: lichens.

### HYPOPREPIA Hubn.

**H. miniata** Kirby. Windsor Mills VII (R); East Bolton VII (W); St. Johns VII (C); Montreal VII (W); Rigaud VII (C); Newaygo VII (So.); Meach Lake VIII (Y); food plants: lichens on tree trunks and rocks.

### CLEMENSIA Walk.

**C. albata** Pack. Island of Orleans (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VII (B); Rosemere VII (W); food plants: lichens on bark.

## Family NOLIDAE

A family of small, grey and black moths, with broader forewings than the Lithosians.

### NOLA Leach.

**N. ovilla** Grt. Montreal VI (W); food plant: oak.

### CELAMA Walk.

**C. cilicoides** Grt. St. Hilaire VI (C); St. Johns VII (C).

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## Family NYCTEOLIDAE

These moths are small, greyish, obscurely marked, and while resembling in wing shape some of the Tortricidae, the venation is closer to the Lithosians.

### SARROTHRIPA Curt.

**S. revayana** Scop. Montreal (C); food plants: willow, poplar.

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## Family ARCTIIDAE

On account of black and yellow stripes on the wings of some species of the family the common name of "Tiger Moth" has been applied. The larvae are generally thickly covered with hair and are known as "wooly bears." In forming their cocoons they spin a little silk and interweave their hairs.

### EUBAPHE Hubn.

**E. aurantiaca** Hubn. East Bolton VII (W); St. Johns VII (C); Montreal VII (W); Rosemere VII (W).

**E. laeta** Guer. St. Hilaire VI (C); St. Johns VII (C); Montreal VI (W).

### UTETHEISA Hubn.

**U. bella.** Linn. Cowansville (Fy); Metis VIII (W); Montreal VII-VIII (W); food plants: cherry, elm, myrica.

### HAPLOA Hubn.

**H. confusa** Lyman. St. Hilaire VII (W); Montreal VII (Ly); Isle Jesus VII (C); Rosemere VII (W); food plant: hounds' tongue.

**H. contigua** Walk. Montreal VII (W); Rosemere VII (W); Rigaud VII (C); food plant,

**H. lecontei.** Windsor Mills VII (R); St. Hilaire VII (W); St. Johns VII (C); Montreal VII-VIII (W); Rigaud VII (W); Chelsea VII (G); food plant: hounds' tongue.

### ESTIGMENE Hubn.

**E. acraea** Drury. Metis VI (W); Brome Co. (Fy); Compton (Gosse); Windsor Mills VI (R); Montreal VI, sometimes a second brood VIII-IX (W); St. Margaret VII (W); food plants: low plants of various kinds.

**E. congrua** Walk. Levis (Fy); Montreal VI-V (W); Calumet VI (W); Oka VI (W); food plant: plantain.

**E. prima** Slosson. Gomin Swamp near Quebec VI (W); Shawbridge VI (W); food plant: plantain.

### HYPHANTRIA Harr.

**H. textor** Harr. The fall web worm, whose ugly nests are so conspicuous in our trees in August and September. Levis (Fy); St. Hilaire VI (W); East Bolton VI (W); St. Johns VI (C); Montreal V-VI (W); Oka VI (W); food plants: elm, choke-cherry, birch, apple.

### DIACRISIA Hubn.

**D. virginica** Fabr. Metis VII (W); Ha-Ha Bay VII (Sa); Levis (Fy); East Bolton VII (W); Compton (Gosse); St. Hilaire VI (W); Montreal V-VI, VIII-IX (W); Rigaud VI (W); Newaygo VI (So); food plants: dandelion, plantain, hollyhock, geranium, various low plants, wild and cultivated.

### ISIA Walk.

**I. isabella** A. & S. Cowansville (Fy); Compton (Gosse); Montreal VI-VII (W); St. Margaret VII (W); food plants: low plants.

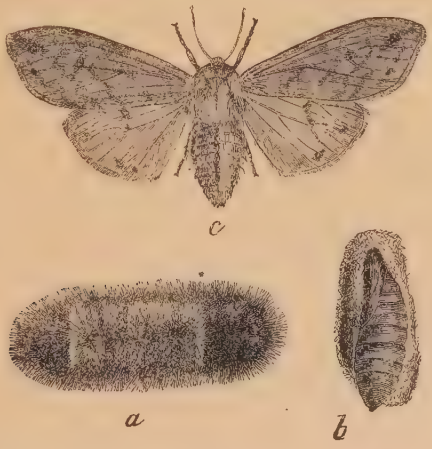


Fig. 16
*Isia isabella*. *a*, larva; *b*, pupa; *c*, imago

### PHRAGMATOBIA Steph.

**P. assimilans** Walk. Montmorenci Falls VI (Bn); Meach Lake V (Y); food plant: plantain.

**P. rubricosa** Harr. Levis (Fy); East Bolton VII (W); St. Johns VII (C); Montreal V-VI (W); food plants: grass, dandelion, golden-rod.

### HYPHORAIA Hubner

**H. parthenos** Harr. Metis VII (Reford); Tadousac VII (Englehardt); Quebec (Fy); Montreal VI-VII (Pearson); Rouge River VII (D'U); Newaygo VI (So); Ottawa district (Baldwin).

### ARCTIA Schrank

**A. caia** Linn. Levis (Fy); East Bolton VII (W); St. Johns VII (C); St. Hilaire VII (Cd); Montreal VII (W); Montfort VII (W); Meach Lake VIII (Y); food plant: dandelion.

### APANTESIS Walk.

**A. arge** Dru. Beloeil VII (Br); Montreal VII-VIII (N); Rigaud (Desrochers); food plants: plantain, grasses, dandelion.

**A. celia** Saund. Cowansville (Fy); Montreal VI (W); Meach Lake (Y); food plants: plantain, etc.

**A. figurata** Dru. Aylmer VI (Y); Meach Lake V-VI (Y); food plants: a general feeder on low plants.

**A. nais** Dru. Montreal VII (St); food plants: dandelion, chenopodium, plantain.

**A. parthenice** Kirby. Metis VII (W); Chicoutimi VII (W); Roberval VII (Ly); Murray Bay VIII (W); Levis VII-VIII (Fy); Rigaud (Desrochers); Meach Lake VIII-IX (Y); East Bolton VII (W); food plants: plantain, etc.

**A. virgo** Linn. Metis VII (W); Chicoutimi VIII (W); Kamouraska VII (W); Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VII (W); St. Margaret VIII (W); food plants: dandelion, plantain, lettuce, etc.

**A. virguncula** Kirby. Anticosti (Coup); Cowansville (Fy); St. Hilaire VI (C); Rigaud VII (C); Montreal VI-VII (W); Meach Lake VII (Y); food plants: low plants in general.

**A. vittata** Fabr. St. Johns VI (D); Montreal (Br.); food plants: plantain, dandelion.

### AMMALO Walk.

**A. tenera** Hubn. St. Hilaire VI (W); East Bolton VII (W); St. Johns VII (C); Montreal VI (W); Chateauguay VII (J); St. Therese VII (W); food plant: dogbane.

### EUCHAETIAS Lyman

**E. egle** Dru. Levis (Fy); St. Hilaire VI (W); Montreal VI (W); Rosemere VI (W); food plant, milkweed.

**E. oregonensis** Stretch. Montreal VI (W); food plant: dogbane.

### HALISIDOTA Hubn.

**H. caryae** Harr. Cowansville (Fy); East Bolton VII (W); Montreal VI-VII (W); St. Johns VI (C); Rosemere VI (W); food plants: elm, bass, maple, hickory, ash, willow.

**H. maculata** Harr. Metis VI-VII (W); Riviere du Loup VI (Ba); Levis (Fy); Cowansville VI (Fy); East Bolton (W); Montreal VI (W); Rosemere VI (W); St. Margaret (W); food plants: willow, poplar, oak, birch, alder.

**H. tessellaris** A. & S. Cowansville (Fy); East Bolton VII (W); St. Johns VI (W); Montreal VI (W); Chateauguay VII (W); Rosemere VI (W); St. Margaret VII (W); food plants: bass, oak, beech.

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## Family AGARISTIDAE

This family contains a few conspicuous moths, black in colour, spotted with white or banded with red. The antennae are long and slightly enlarged at the tip. The larvae are also brightly banded with orange, yellowish.

### ALYPIA Hubn.

**A. langtonii** Coup. Quebec VII (Coup); Montreal VI-VII (W); food plant: epilobium.

**A. mac. cullochii** Kirby. Godbout River VI (Coup); Montreal VI (St); St. Johns (C).

**A. octomaculata** Fabr. Fox Bay, Anticosti (Coup); Cacouna VII (Sa); St. Hilaire VI (W); St. Johns VI (W); Montreal VI (W); Rosemere VII (W); food plant: grape.

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## Family PANTHEIDAE

The moths differ from the following large family in the venation of the wings and the thorax is shorter and squarer.

### PANTHEA Hubn.

**P. acronyctoides** Walk. Montmorenci Falls VI (L); Montreal V (W); Riv. Rouge VI (D'U).
**P. furcilla** Pack. Gaspe (B); Levis (Fy); food plants: larch and pine.

### DEMAS Steph.

**D. flavicornis** Smitt. Montreal VI (C); St. Hilaire VI (W); Newaygo VI (So).
**D. propinquilinea** Grh. Montreal VI (W); food plants: birch, oak, maple, beech.

### CHARADRA Walk.

**C. deridens** Guen. Montreal VI-VII (W); Levis (Fy); food plants: oak, poplar, birch, elm.

### RAPHIA Hubn.

**R. frater** Grt. Metis VII (W); Levis (Fy); St. Johns VI (C); East Bolton VII (W); Montreal VI (W); Rigaud VII (W); food plants: poplar, willow.

## Family NOCTUIDAE

This family contains an immense number of species of moths of medium or large size, commonly known as " Owlet moths " They have robust bodies and short triangular forewings and broader hindwings; the antennae are mostly simple, but sometimes pectinated in the males. The colours are mostly sombre shades of grey, brown, drab, olive, serving to make the moths while at rest on trees, stones, logs and fences very difficult to discern. With a few exceptions they rest by day and fly after sundown.

The caterpillars of most are known as " cut worms " and are smooth and obscurely marked and striped, but some are brightly coloured and tufted with various lengths and shades of hairs. Pupation of most is in the ground, without cocoon.

### ACRONYCTA Ochs.

**A. afflicta** Grote. Montreal VII (W); Rosemere VII (W); foot plant: oak.

**A. americana** Harr. Levis (Fy); St. Hilaire VII (W); St. Johns (C); Montreal VI (W); Phillipsburg VI (W); food plants: maple, elm, oak, ash, birch, alder, hickory.

**A. brumosa** Guen. Levis (Fy); food plants: oak, birch.

**A. clarescens** Guen. Meach Lake VII (Y); foot plant: plum.

**A. dactylina** Grt. Windsor Mills VI (R); Montreal VI (W); food plants: willow, beech, alder.

**A. distans** Grt. Montreal VI (W); food plants: poplar, willow, birch, alder.

**A. fragilis** Guen. Levis (Fy); Phillipsburg VI (W); Windsor Mills VI (W); East Bolton VII (W); Montreal VI (W); Lost River V-VI (Gb); St. Therese VI (Mi); St. Hilaire VII (C); food plants: apple, birch, mountain ash.

**A. funeralis** Grt. St. Johns VII (C); Montreal VI (W); Chelsea VII (Fr); food plants: maple, white birch, hickory, apple.

**A. furcifera** Guen. St. Hilaire VI (C); Montreal VI (W); food plant: choke-cherry.

**A. grisea** Walk. Metis VII (W); St. Fabien VII (C); Montreal VI (W); Meach Lake V (Y); food plants: willow, birch, apple, elm.

**A. haesitata** Grote. Meach Lake VI (Y).

**A. lepusculina** Guen. Phillipsburg VI (W); Cowansville (Fy); Montreal V-VI (W); food plant: poplar.

**A. impleta** Walk. Phillipsburg VI (W); Montreal VI (W).

**A. impressa** Walk. St. Johns V & VIII (C); East Bolton VII (W); Phillipsburg VI (W); Montreal V-VI (W); St. Therese (Mi); Newaygo VI (C); food plants: poplar, willow, hazel.

**A. inclara** Smith. Levis (Fy); St. Hilaire VII (C); Montreal VI (W); St. Therese (Mi); food plants: oak, birch.

**A. innotata** Guen. Riviere du Loup VI (Ba); Cowansville (Fy); St. Hilaire VII (W); St. Johns VII (C); Windsor Mills VI (R); Montreal V-VI (W); St. Margaret VII (W); Newaygo VII (So.); Meach Lake VI (F); food plant: hickory, birch.

**A. interrupta** Guen. East Bolton VII (W); Phillipsburg VI (W); Windsor Mills (R); St. Johns VI (C); St. Hilaire VI (W); Montreal V-VI (W); food plants: birch, elm, plum, apple.

**A. lobeliae** Guen. Montreal VI (W); Lost River V-VI (Gb); food plant: oak.

**A. morula** Grote. Levis (Fy); St. Johns VI (C); St. Hilaire VII (W); Montreal VI (W); Oka VI (W); food plants: elm, bass, apple.

**A. noctivaga** Grt. Montreal VI (W); food plant: poplar.

**A. oblinita** A. & S. Levis (Fy); St. Johns VII (C); Montreal VII (W); food plants: willow, raspberry, apple.

**A. radcliffei** Harv. Montreal VI (C); Meach Lake VII (Y); food plants: apple, wild cherry.

**A. retardata** Walk. Levis (Fy); St. Johns VII (C); St. Hilaire VII (C); food plant: maple.

**A. sperata** Grt. Levis (Fy); Montreal VI (W); food plants: poplar and alder.

**A. superans** Guen. Metis VII (W); Levis (Fy); St. Fabien VII (C); East Bolton VII (W); Montreal VI-VII (W); St. Margaret VII (W); food plants: apple, plum, cherry, birch, hazel.

**A. vinnula** Grt. Levis (Fy); Phillipsburg VI (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); food plant: elm.

### APHARETRA Grote

**A. dentata** Grote. Kamouraska VII (W); Quebec (B).

### ARSILONCHE Led.

**A. henrici** Grt. East Bolton VII (W); St. Hilaire VI (W); Montreal V-VII (W); Chateauguay VII (W); St. Faustin VI (W); food plant: coarse grasses.

### HARRISIMEMNA Grt.

**H. trisignata** Walk. Quebec VII (Ly); Cowansville (Fy); Windsor Mills (R); St. Johns VI-VII (C); Hull (Fy); food plants: lilac, ash, apple, willow.

### MICROCOELIA Guen.

**M. diphtheroides** Guen. Levis (Fy); St. Hilaire VII (W); St. Johns VII (C); East Bolton VII (W); Montreal VI (W); Lost River V-VI (Gb).
var. **obliterata,** Grt. found everywhere.

### JASPIDEA Hubn.

**J. lepidula** Grt. Metis VII-VIII (W); Cowansville (Fy); East Bolton VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal V-VI-VII (W); Rigaud VII (C); Lost River V-VI (Gb); Meach Lake VI (F).

**J. teratophora** H-S. St. Johns VI (C).

### CHYTONIX Grt.

**C. palliatricula** Guen. Cowansville (Fy); St. Hilaire VII (C); St. Johns VI-VII (C); Montreal VI-VII (W); Newaygo VII (So).

**C. sensilis** Grote. Meach Lake VI (Y).

### MOMA Hubn.

**M. fallax** H. S. Quebec VI (N); food plant: poplar.

### BAILEYA Grt.

**B. dormitans** Guen. St. Hilaire VII (C); Montreal VI (W); food plant: hickory.

**B. doubledayi** Guen. Cowansville (Fy); Windsor Mills VI (R); Montreal VI (W); Hull VI (G); Brownsburg VIII (Br).

**B. ophthalmica** Guen. St. Hilaire V (W); Montreal V-VI (W); St. Johns VI (C); Meach Lake VI (Y).

### CATABENA Walk.

**C. lineolata** Walk. Taken at Ottawa VII (Baldwin). No actual record for Quebec Province. Food plant: verbena.

### CRAMBODES Guen.

**C. talidiformis** Guen. St. Hilaire VII (C); Montreal VII (C); St. Margaret VII (W); food plant: verbena.

### PLATYSENTA Grt.

**P. videns** Guen. Montreal VIII-IX (W).

### BALSA Walk.

**B. malana** Fitch. Levis VII (Fy); St. Hilaire VII (W); East Bolton VII (W); Montreal VI-VII (W); Oka VI (W); food plants: apple, cherry, poplar, elm.

**B. labecula** Grt. Montreal VI (W).

**B. tristrigella** Walk. St. Hilaire V (W); Montreal V & VI (W).

### CARADRINA Ochs.

**C. miranda** Walk. St. Hilaire VII (W); Montreal VI-VII (W).

**C. multifera** Walk. Metis VII (W); Montreal VI-VII (W); St. Margaret VII (W).

### PERIGEA Guen.

**P. vecors** Guen. Meach Lake VI (Y).

### OLIGIA Hubn.

**O. festivoides** Guen. St. Hilaire VI (C); Montreal VI (W); Rigaud VI (C); Newaygo VI (So).

**O. versicolor** Grt. Montreal VI (W); food plants: pine, balsam, fir.

### HILLIA Grt.

**H. algens** Grt. Montreal VIII (W); Meach Lake IX (Y).

### HADENA Schrank

**H. apamiformis** Guen. St. Hilaire VII (C); Montreal VI-VII (W).

**H. arctica** Bd. Metis VII-VIII (W); Levis (Fy); St. Hilaire VII (W); East Bolton VII (W); Montreal VI-VII (W); Chateauguay VII (J).

**H. bridghami** G. & R. Levis (Fy); Rosemere VII (W).

**H. cariosa** Guen. Montreal VII (W); Meach Lake VII (Y).

**H. devastatrix** Brace. Metis VII (W); Levis (Fy); Kamouraska VII (W); St. Hilaire VII (W); Montreal VI-IX (W); Rigaud VII (W); food plants: field crops and garden plants of most kinds.

**H. didonea** Sm. St. Hilaire VII (C); Montreal VI-VII (W); food plant: roots of *Phalaris arundinacea.*

**H. diversicolor** Morr. Levis (Fy).

**H. dubitans** Walk. Metis VII (W); Levis (Fy); St. Hilaire IX (C); St. Johns VIII (C); Montreal VII-VIII (W).

**H. finitima** Guen. Metis VII (W); Levis (Fy); St. Hilaire VII (W); St. Johns V (C); Montreal VI (W).

**H. impulsa** Guen. Metis VII-VIII (W); Levis (Fy); St. Hilaire VII (W); Montreal VI-VII (W); St. Therese (Mi); St. Faustin VI (W).

**H. lateritia** Hbn. Metis VII (W); St. Hilaire VII (C); Montreal VII-VIII (W).

**H. lignicolor** Guen. Metis VII-VIII (W); Cap a l'aigle VIII (W); Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Windsor Mills VI (R); Montreal VI-VIII (W).

**H. mactata** Guen. Montreal VI-VII (W); Chateauguay VII (W); Windsor Mills VII (R); Rigaud VII (W); Meach Lake IX (F).

**H. modica** Guen. Cap a l'Aigle VII (W); Montreal VI (W); Phillipsburg VI (W); St. Margaret VII (W).

**H. nigrior** Smith. Montreal VII (W); Meach Lake VI (Y);

**H. passer** Guen. Levis (Fy); St. Hilaire VII (C); Montreal VI (W); food plant: roots of dock (Rumex).

**H. plutonia** Grt. Meach Lake VII (Y).

**H. remissa** Hubn. Metis VII (W); St. Hilaire VII (C); East Bolton VII (W); Montreal VI-VII (W); St. Johns VII (C); Rigaud VI (Des); St. Margaret VII (W).

**H. stipata** Morr. Montreal VII (W); Meach Lake VII (Y).

**H. rorulenta** Sm. St. Johns VII (C); Montreal VI-VII (W).

**H. semicana** Walk. Levis (Fy); Montreal VI-VII (W).

**H. suffusca** Morr. St. Hilaire VII (W); Montreal VI-VII (W).

**H. verbascoides** Guen. Levis VII (Fy); Montreal VI-VII (W).

**H. vultuosa** Grt. St. Hilaire VII (C); Montreal VI-VII (W).

### MACRONOCTUA Grt.

**M. onusta** Grt. Levis (Fy); Montreal VIII-IX (W); Rosemere IX (W); food plants: roots of Iris, both wild and cultivated.

### POLIA Hubn.

**P. confragosa** (Morr). Quebec (Belanger).

**P. medialis** Grt. Montreal VII (W); Meach Lake IX (Y).

### DRYOBOTA Lederer

**D. illocata** Walk. Meach Lake IX (F).

### HYPPA Dup.

**H. xylinoides** Guen. Metis VII (W); Rimouski VIII (Gb); Levis VIII (W); Sherbrooke VII (So); St. Johns VI (C); Cowansville (Fy); Montreal V-VIII (W); Chateauguay VII (J); Meach Lake (Y); food plants: dandelion, lamb's quarter, scabiosa.

### TRACHEA Hubn.

**T. delicata** Grt. Montreal VIII (W).

### EUPLEXIA Steph.

**E. lucipara** Linn. Metis VII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VII (W); Newaygo VII (So); Meach Lake (Y); food plants: ferns of all kinds, birch.

### ACTINOTIA Hubn.

**A. ramosula** Guen. Levis VII (Fy); East Bolton VII (W); Montreal VII (W); St. Margaret VII (W); Lost River V-VI (Gb).

### DIPTERYGIA Steph.

**D. scabriuscula** Linn. Montreal VI-VII (W); St. Margaret VII (W); food plant: dock.

### PYROPHILA Hubn.

**P. glabella** Morr. Montreal VII-VIII (W); Windsor Mills VII (W); food plant: beech.

**P. pyramidoides** Guen. Levis (Fy); St. Johns VII (C); East Bolton VII (W); Montreal VII-IX (W); Rigaud VII (W); food plants: grape, thorn, poplar, plum, apple.

**P. tragopogonis** Linn. Metis VIII (W); Levis (Fy); East Bolton VII (W); St. Johns VII (C); Montreal VII-VIII (W); Chelsea VII (G); food plant: dock.

### HELOTROPHA Led.

**H. reniformis** Grt. Levis (Fy); Montreal VII-IX (W); St. Margaret VIII (W);
var. **atra** Grt. Occurs also with type form.

### LAPHYGMA Guen.

**L. frugiperda** A. & S. Montreal IX (W); food plants: grasses and grains; a general feeder.

### HOMOHADENA Grt.

**H. badistriga** Grt. Montreal VII (W); St. Hilaire VII (W); food plant: honeysuckle.

### COPIPANOLIS Grt.

**C. cubilis** Grt. Montreal V (W).

### PSAPHIDIA Walk.

**P. grotei** Morr. Levis (Fy); Montreal IV-V (W).

### RHYNCHAGROTIS Sm.

**R. alternata** Grt. St. Hilaire VIII (C); Montreal VIII-IX (W); Shawbridge VIII (W); Meach Lake VIII (G).

**R. anchocelioides** Guen. Montreal VII-VIII (W); food plant: grape.

**R. gilvipennis** Grt. Metis VIII (W); Rimouski VIII (Gb); Murray Bay VIII (W); Cowansville (Fy); St. Margaret VII (W).

**R. placida** Grt. Montreal IX (C).

**R. rufipectus** Morr. Levis (Fy); Montreal VII (W); Shawbridge VII (W).

### ADELPHAGROTIS Sm.

**A. prasina** Fabr. Cap a l'Aigle VII (W); Quebec VII (W); Cowansville (Fy); East Bolton VII (W); St. Johns VII (C); Montreal V-VIII (W); Meach Lake VII (Y).

### PLATAGROTIS Sm.

**P. pressa** Grt. Metis VII (W); St. Hilaire VII (C); Montreal VI-VII (W).

### EUERETAGROTIS Sm.

**E. inattenta** Sm. Montreal VII (W).

**E. perattenta** Sm. St. Johns VI-VII (C); Montreal VII (C); Rigaud (Des); Meach Lake VIII (G).

**E. sigmoides** Guen. Cowansville (Fy); Montreal VI-VII (W); Meach Lake VII (Y).

### SEMIOPHORA Steph.

**S. elimata** Guen. St. Johns VII (C); Montreal VII (W); Meach Lake VII (Y).

**S. opacifrons** Grt. Meach Lake VIII (Y).

**S. tenebrifera** Walk. Montreal IV-V (W); St. Hilaire V (W); Newaygo V (C).

**S. youngii** Sm. Levis (Fy).

### PACHNOBIA Guen.

**P. salicarum** Walk. Cowansville (Fy); Montreal (D); St. Therese (Mi); Lost River V (Gb).

### SETAGROTIS Smith

**S. quebecensis** Smith. Quebec (type locality).

### AGROTIS Tr.

**A. geniculata** G. & R. St. Hilaire VIII (W); Meach Lake VIII (Y).

**A. ypsilon** Rott. Metis VIII (W); Levis (Fy); St. Hilaire VIII (C); Montreal VI-X (W); A cosmopolitan species. Food plants: low plants in general.

Fig. 17.
*Agrotis ypsilon*. *a*, larva; *b*, head of larva, enlarged; *c*, imago.

### PERIDROMA Hubn.

**P. astricta** Morr. Levis (Fy); Cap a l'Aigle VII (W); St. Margaret VII (W); East Bolton VII (W).

**P. margaritosa** Harr. (saucia Hubn.); Levis VIII (Fy); Montreal VIII-IX (W); food plants: low plants generally.

**P. occulta** Linn. Metis VII (W); Rimouski VIII (Gb.); Levis (Fy); St Hilaire VII (W); St. Johns VII (C); Montreal VII-X (W); Rigaud VIII (W); food plants:

## NOCTUA Linn.

**N. baja** Fabr. Metis VII (W); Cowansville (Fy); Montreal VII-X (W); Meach Lake VIII (G).

**N. bicarnea** Guen. Metis VII (W); St. Johns VII (C); Montreal VII-IX (W); St. Margaret VII (W).

**N. clandestina** Harr. Metis VII-VIII (W); Chicoutimi VIII (W); Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VI-VII (W); Newaygo VII (So).

**N. c-nigrum** Linn. Metis VII (W); St. Hilaire VII (W); East Bolton VII (W); Windsor Mills VII (R); Montreal VI-IX (W); Rigaud VIII (W).

**N. collaris** G. & R. Levis (Fy); St. Margaret VIII (W); Meach Lake VIII (Y); food plants: clover, ferns.

**N. fennica** Tausch. Metis VII-VIII (W); Rimouski VIII (Gb.); Cap a l'Aigle VIII (W); Levis (Fy); St. Hilaire VII (W); East Bolton VII (W); Montreal VII (W); St. Margaret VII (W); Meach Lake VII (Y); food plant: clover.

**N. haruspica** Grt. Metis VII (W); Levis (Fy); St. Johns VII (C); St. Hilaire VII (C); East Bolton VII (W); Montreal VI-VII (W).

**N. jucunda** Walk. St. Hilaire VII (So); St. Johns (C); Montreal VII (W); Meach Lake VII (Y).

**N. juncta.** Meach Lake VII (Y).

**N. lubricans** Guen. Rimouski VIII (Gb); St. Hilaire VI (C); St. Margaret VII (W); Montreal VI-VII (W).

**N. normaniana** Grt. Levis (Fy); Montreal VII-IX (W); Meach Lake VIII (G).

**N. phyllophora** Grt. St. Johns VII (C); Montreal VII-VIII (W); Meach Lake VI (Y).

**N. plecta** Linn. Metis VII (W); Cap a l'Aigle VII (W); Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VI-IX (W); Rigaud VII (W); St. Margaret VII (W); food plants: cabbage, lettuce, dandelion.

**N. rubifera** Grt. Montreal VIII (W); Meach Lake VIII (Y).

**N. treatii** Grt. Rimouski VIII (Gb); Montreal VII (W); St. Margaret VII (W).

## FELTIA Walk.

**F. ducens** Walk. Cowansville (Fy); St. Hilaire VIII (W); East Bolton VIII (W); Montreal VII-VIII (W); food plants: grasses.

**F. gladiaria** Morr. Montreal VI (W).

**F. herilis** Grt. Levis (Fy); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Rigaud VII (W).

**F. jaculifera** Guen. Levis (Fy); Montreal VI-VII (W).

**F. venerabilis** Walk. Levis (Fy); Winsdor Mills VIII (R); Montreal VIII-IX (W); St. Hilaire VIII (W).

**F. volubilis** Harr. Montreal VIII (W); Lost River V-VI (Gb).

### POROSAGROTIS Sm.

**P. mimallonis** Grt. St. Hilaire VIII (C); Meach Lake VII-VIII (Y).

**P. vetusta** Walk. Meach Lake IX (Y).

### EUXOA Hubn.

**E. albipennis** Grt. Meach Lake VIII (Y).

**E. declarata.** Rimouski VIII (Gb); Cowansville (Fy); East Bolton VIII (W); Montreal VII (W); Rigaud VIII (W).

**E. detersa** Walk. Montreal X (C).

**E. dargo** Strk. Cap a l'Aigle VIII (W).

**E. divergens** Walk. St. Hilaire VII (C); St. Johns VII (C).

**E. fumalis** Grt. Meach Lake IX (Y).

**E. messoria** Harr. Metis VIII (W); St. Hilaire VIII (C); Montreal VIII-IX (W); food plants:

**E. obeliscoides** Guen. Montreal VII-IX (W).

**E. ochrogaster** Guen. Rimouski VIII (Gb); Levis (Fy); Montreal VIII (W); Lachute VIII (F); Rigaud VIII (W).

**E. pitychrous** Grt. Cap a l'Aigle VIII (W); St. Hilaire VIII (W); on golden rod blossoms.

**E. redimicula** Morr. Cap a l'Aigle VIII (W); Levis (Fy); St. Hilaire VIII (W); Montreal VII (W); St. Margaret VIII (W).

**E. scandens** Riley. Rimouski VIII (Gb); Montreal VII (W).

**E. tristicula** Morr. Rimouski VIII (Gb).

**E. tessellata** Harr. St. Hilaire VII (C); Montreal VII (C).

**E. velleripennis** Grt. Meach Lake VIII (Y).

### ANYTUS Grote

**A. privatus** Walk. Levis (Fy); Montreal VII-VIII (W).

### UFEUS Grote

**U. plicatus** Grt. Montreal (Fy).

**U. satyricus** Grt. Rawdon IV (Fy); Lachute (Br).

## MAMESTRA Ochs.

**M. adjuncta** Bdv. Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Windsor Mills VII (R); Montreal VI (W); St. Therese (Mi); St. Faustin VI (W); food plants: golden rod, asparagus.

**M. assimilis** Morr. Metis VII (W); Levis (Fy); St. Hilaire VI (C); Montreal VI (W); food plants: St. John's wort, apple, brake.

**M. atlantica** Grt. Metis VII (W); Levis (Fy); St. Johns VII (C); Montreal V-VII (W).

**M. detracta** Walk. St. Hilaire VII (C).

**M. distincta** Hubn. St. Hilaire V (W); Montreal V-VI (W); St. Therese V (W); Meach Lake V (Y); food plant: grape.

**M. goodellii** Grote. St. Hilaire V-VI (C).

**M. grandis** Bd. St. Hilaire V-VI (C); Montreal VI (W); Lost River V-VI (Gb); food plant: burdock.

**M. gussata** Smith. Ottawa district IV-V (Y).

**M. imbrifera** Guen. Quebec VII (Fy); Cap a l'Aigle VIII (W); St. Johns VII (C); Montreal VII (W); Newaygo VII (So.); Meach Lake VII (Y); food plant: choke cherry.

**M. latex** Guen. Levis (Fy); St. Hilaire V (W); Montreal V-VI (W); Shawbridge VI (W).

**M. legitima** Grt. Levis (Fy); St. Hilaire VI (C); Sherbrooke VII (So); Montreal VI-VII (W); Meach Lake (Y); food plants: clover, beans, cabbage.

**M. lilacina** Harv. Levis (Fy); Montreal VI (W).

**M. lorea** Guen. Metis VII (W); St. Hilaire VII (C); St. Hyacinthe (T); St. Johns (C); East Bolton VII (W); Montreal VI-VII (W); Newaygo VII (So); food plant: strawberry.

**M. lubens** Grt. St. Hilaire VII (C); St. Johns VI (C); Montreal VII (W); St. Therese (Mi); Meach Lake VII (Y); food plants: birch, sumac.

**M. lustralis** Grote. St. Hilaire VII (C); Montreal VI-VII (W); Rigaud VI (C).

**M. meditata** Grt. Montreal V-VI and VIII (W); Meach Lake VIII (Y).

**M. nimbosa** Guen. St. Johns VII (C); East Bolton VII (W); Windsor Mills VII (R); Montreal VI-VII (W); Chateauguay VII (J).

**M. olivacea** Morr. Rimouski VIII (Gb); St. Johns VII (C); East Bolton VII (W); Montreal VI-VII (W); St. Faustin VI (W).

**M. picta** Harr. Levis (Fy); Montreal VI-VII (W); Meach Lake VII (Y); food plants: dandelion, cabbage.

**M. purpurissata** Grt. Cap a l'Aigle VII (W); St. Hilaire VIII (C); East Bolton VII (W); Montreal VI-VII (W); Rigaud VII (W).

**M. radix** Walk. Montreal V-VI (W).

**M. renigera** Steph. Metis VII-VIII (W); Rimouski VIII (Gb); Kamouraska VIII (W); Levis (Fy); St. Hilaire VII (W); St. Johns VII (C); Windsor Mills VII (R); Montreal VII-VIII (W); Rigaud VII (W); St. Margaret VIII (W); food plants: low plants generally.

**M. rosea** Harv. Cowansville (Fy); St. Hilaire V (C); Montreal V-VI (W); Lost River V-VI (G); food plant: sow thistle.

**M. rubefacta** Morr. East Bolton VII (W).

**M. subjuncta** G. & R. St. Johns VI (C); Montreal VI (W); food plants: grasses, cruciferae.

**M. tacoma** Strk. Metis VII (W); Cap a l'Aigle VII (W); Sherbrooke VII (So); Lost River V-VI (G); St. Margaret VII (W).

**M. trifolii** Rott. Metis VII (W); Levis (Fy); Montreal VI-VII (W); St. Johns VI (C); Rigaud VI (C); food plants: clover, lamb's quarter, cabbage.

**M. vicina** Grote. Meach Lake VIII (G).

### BARATHRA Hubn.

**B. curialis** Sm. Quebec VII (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VII (W); Rigaud VII (W); food plants:

### MORRISONIA Grt.

**M. confusa** Hubn. St. Hilaire V (C); Montreal V-VI (W); Meach Lake V (Y); food plants: willow, poplar.

**M. sectilis** Guen. Montreal V (W).

### XYLOMIGES Guen.

**X. dolosa** Grt. Montreal V-VI (W); Meach Lake V (Y); food plants:

**X. tabulata** Grt. Montreal (D).

### ANARTA Ochs.

**A. cordigera** Thumb. Quebec (Coup); Cowansville (Fy); food plants: vaccinium, bear-berry,
**A. melaleuca** Thumb. Bergerville (Fy).

### NEPHELODES Guen.

**N. minians** Guen. Rimouski VIII (Gb); Levis (Fy); St. Hilaire VIII (C); Montreal VIII (W); Rosemere VIII (W); foot plants: grasses, corn.

### LEUCANIA Ochs.

**L. albilinea** Hubn. Metis VIII (W); Rimouski VIII (Gb); Levis (Fy); St. Johns VII-VIII (C); East Bolton VII (W); Montreal VI-VII (W); Rosemere VII (W); food plants: wheat and other grain crops.

**L. commoides** Guen. Levis (Fy); St. Hilaire VII (Fy); Montreal VII (W).

**L. diffusa** Walk. Montreal VII-VIII (C).

**L. insueta** Guen. Metis VII (W); East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VII (W); Rigaud VI (C).

**L. multilinea** Walk. Levis (Fy.); Montreal VII (W).

**L. pallens** Linn. Metis VII (W); Levis (Fy); St. Hilaire VII (W); East Bolton VII (W); Montreal VI-VIII (W); St. Margaret VII-VIII (W); food plants: grasses.

**L. phragmatidicola** Guen. Montreal VI-VII (W).

**L. pseudargyria** Guen. Metis VII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VIII (W); St. Margaret VII (W).

**L. unipuncta** Haw. Levis (Fy); East Bolton VIII (W); Montreal VI-IX (W); Chateauguay VII (W); food plants: grasses.

### ORTHODES Guen.

**O. crenulata** Buth. Levis (Fy); St. Hilaire VI (C); St. Johns VI (C); Montreal VI (W); St. Margaret VII (W).

**O. cynica** Guen. Levis (Fy); St. Hilaire VI (C); St. Johns VI (C); Montreal VI (W).

**O. puerilis** Grt. Montreal VII (W).

**O. vecors** Guen. St. Hilaire VII (C).

### HIMELLA Grt.

**H. contrahens** Walk. Metis VII (W); East Bolton VII (W); St. Margaret VII (W); Meach Lake VII (Y).

### CROCIGRAPHA Grt.

**C. normani** Grt. St. Hilaire V (W); Montreal IV-V (W); Newaygo V (C); food plant: oak.

### GRAPHIPHORA Hubn.

**G. culea** Guen. Meach Lake VII (Y).

**G. furfurata** Grt. St. Hilaire VI-VII and IX (C).

**G. hibisci** Guen. (alia Guen.); St. Hilaire V (W); Montreal IV-V (W); Rigaud IV (Des.); food plants: oak, willow, plum.

**G. oviduca** Guen. Montreal VI (W); Meach Lake V (Y).

**G. rubrescens** Walk. St. Hilaire V (W); Montreal IV-V (W); Newaygo VI (So).

**G. subterminata** Sm. Bergerville (Fy); St. Johns VI (C); Montreal IV-V (W); Newaygo VI (So).

### TRICHOLITA Grote

**T. signata** Walk. St Johns VIII (C); Montreal VII-VIII (W); St. Margaret VII (W); Meach Lake VIII (G).

### LITHOMIA Hubn.

**L. germana** Morr. Levis (Fy); Montreal VIII (W).

### XYLINA Ochs.

**X. amanda** Smith. Montreal IX (W).

**X. antennata** Walk. Montreal IX-X (W); food plant: apple.

**X. baileyi** Grote. Montreal IX (W); Meach Lake X (Y).

**X. bethunei** G. & R. Levis (Fy); Montreal IX-X (W); Como IX (Gb); Rigaud (Des.); Meach Lake (Y); food plants: apple, hawthorn, maple, cherry.

**X. disposita** Morr. Cowansville (Fy); Montreal IX-X and hib. IV-V (W); Meech Lake (Y); food plant: apple.

**X. fagina** Morr. Montreal IX and IV-V hibernated (W); St. Hilaire V (W).

**X. ferrealis** Grt. Levis (Fy); Montreal IX-X and IV-V hibernated (W); Rigaud IV (Des).

**X. fletcheri** Smith. Montreal IX-X (W); Meach Lake IX (Y).

**X. gausapata** Grt. Levis (Fy).

**X. georgii** Grt. Levis (Fy); Montreal IX-X and hibernated IV-V (W).

**X. grotei** Riley. Montreal IX-X (W); Meach Lake (Y); food plant: maple.

**X. innominata** Smith. St. Hilaire V hibernated (W); Montreal IX (W).

**X. laticinerea** Grt. Montreal IX-XI and IV-V hibernated (W); Como IX (Gb); food plants: hawthorn, apple, maple, cherry.

**X. lepida** Lintn. Meach Lake IX (Y).

**X. oriunda** Grote. Quebec (B); Montreal (B); Como IX (Gb).

**X. patefacta** Walk. Montreal IX-X (W).

**X. petulca** Grote. Levis (Fy); St. Johns V (C); Montreal IX-X and IV-V hibernated (W); Como IX (Gb).

**X. pexata** Grote. Levis (Fy); Montreal IX-X and IV-V hibernated (W); Como IX (Gb); Meach Lake (Y).

**X. querquera** Grote. Quebec (B); Levis (Fy).

**X. semiusta** Grt. Montreal IX (W).

**X. signosa** Walk. Levis (Fy); Montreal IX-X (W).

**X. tepida** Grote. Montreal IX (N).

**X. thaxteri** Grote. Levis (Fy); St. Johns IX (C); Meach Lake (Y).

**X. unimoda** Lintn. Montreal IX (W).

### LITHOLOMIA Grote

**L. napaea** Morr. Levis (Fy); Montreal VIII-IX (W); Meach Lake IX (Y).

### CALOCAMPA Steph.

**C. cineritia** Grt. Levis (Fy); St. Hilaire V (W); Montreal IX-X and V hibernated (W).

**C. curvimacula** Morr. Levis (Fy); Montreal IX-X and V hibernated (W); Calumet V-VI (W); Meach Lake (Y); food plant: apple.

**C. nupera** Lintn. Iron Hill (Fy); Montreal IX-X and IV-V hibernated (W); Como IX (Gb); food plant: willow.

### CUCULLIA Schrank

**C. asteroides** Guen. Montreal VIII (W); food plant: golden rod.

**C. convexipennis** G. & R. Cowansville (Fy); St. Hilaire VII (W); Montreal VII (W); St. Therese (Mi); food plant: golden rod.

**C. florea** Guen. Montreal VI (C).

**C. intermedia** Spey. Metis VII (W); Levis (Fy); St. Hilaire VI (Cd); Montreal VI and VIII (W); Lost River VI (Gb); food plant: dandelion.

**C. postera** Guen. Montreal VIII (W).

### ARZAMA Walk.

**A. obliqua** Walk. St. Hilaire VI (W); Montreal VI (W); food plants: cat-tail, larva bores in stems.

### NONAGRIA Ochs.

**N. laeta** Morr. Montreal VIII (St).

**N. subcarnea** Kell. Montreal VIII-IX (W); food plants: cat-tail; larva bores in stems.

### ACHATODES Guen.

**A. zeae** Harr. Windsor Mills VII (W); East Farnham (Fy); St. Johns VII (C); Montreal VII-VIII (W); Meach Lake VII (G); food plant: elder; larva bores in young shoots, also bores in corn.

### APAMEA Tr.

**A. nictitans** Bork. Kamouraska VII (W); Rimouski VIII (Gb); Levis (Fy); St. Hilaire VIII (W); Montreal VII-IX (W); St. Margaret VIII (W); food plants: roots of grasses.

**A. velata** Walk. Rimouski VIII (Gb); Kamouraska VII (W); St. Hilaire VII (C); East Bolton VII (W); St. Johns VII (C); Montreal VII-VIII (W); Cowansville (Fy); Meach Lake VII (Y).

## HYDROECIA Tr.

**H. immanis** Guen. Levis (Fy); St. Hilaire VIII (C); Montreal VIII-IX (W); Rigaud VIII (W); food plants: hop vines, the larva bores in crown roots.

**H. stramentosa** Guen. Montreal IX (W).

## PAPAIPEMÁ Smith

**P. aerata** Lyman. Montreal VIII-IX (Ly); food plant: burdock stems.

**P. arctovorens** Hamps. (=rutila of references); St. Hilaire VIII (W); Montreal VIII-IX (W); food plants: burdock, thistle, vervain, mullein.

**P. appasionata** Harv. Meach Lake VIII (Y); and doubtless wherever its food plant grows: food plants: roots of pitcher plants.

**P. cataphracta** Grt. Montreal VIII-IX (W); Meach Lake (Y); food plants: sunflower, burdock, eupatorium, thistle.

**P. cerussata** Grt. Meach Lake VIII (G); food plants: dock (Rumex occidentalis) roots.

**P. eupatorii** Lyman. Montreal VIII (W); Isle Jesu VIII (W); Rosemere VIII (W); food plants: Joe Pye weed stems (Eupatorium purpureum).

**P. frigida** Sm. East Bolton VIII (W); Windsor Mills VIII (W); St. Hilaire VIII (W); Montreal VIII (Ly); St. Margaret IX (W); Meach Lake VIII-IX (Y); food plants: meadow rue roots.

**P. harrisii** Grote. Metis VIII (Br); food plant: cow parsnip (Heracleum lanatum).

**P. impecuniosa** Grt. Montreal VIII-IX (W); Rigaud VIII (W); food plants: aster, sunflower.

**P. inquaesita** G. & R. Montreal VIII-IX (W); food plant: roots of sensitive fern (Onoclea).

**P. marginidens** Guen. Island of Orleans VIII (W); St. Johns VIII (C); St. Hilaire VIII (W); Montreal VIII (W); food plant: stems and roots of spotted leaf hemlock (cicuta maculata).

**P. moeseri** Bird. Montreal VIII (Bird); food plant: turtle-head roots (cleone glabra).

**P. necopina** Grt. Montreal VIII (Bird); food plants: burdock, sunflower.

**P. nitela** Guen. Montreal VIII (W); food plants: rag-weed (ambrosia trifida), dock, aster, corn, tomato.

**P. pterisii** Bird. Montreal VIII (W); St. Margaret VIII (W); Meach Lake (Y); food plant: root of brake (pteris aquilina).

**P. purpurifascia** G. & R. Levis (Fy); Montreal VIII-IX (W); Meach Lake VIII (Y); food plant roots of columbine, wild and cultivated.

**P. rigida** Grt. Montreal VIII (Ly).

**P. speciosissima** G. & R. Montreal VIII (C).

## PYRRHIA Hubn.

**P. exprimens** Walk. Montreal VII-VIII-IX (W).

**P. umbra** Hüfn. Levis (Fy); Montreal VIII (So); Meach Lake VII (G); food plants: blackberry, desmodium.

### XANTHIA Hubn.

**X. flavago** Hubn. Charlesbourg (Fy); Montreal VIII-IX (W); Como IX (Gb); St. Hippolyte IX (W); food plants:

### BROTOLOMIA Lederer

**B. iris** Guen. Cowansville (Fy); Windsor Mills VI (W); Cowansville (Fy); St. Johns VII (C); St. Hilaire VII (C); Montreal VI-VII (W); food plant: brake.

### CONSERVULA Grt.

**C. anodonta** Guen. St. Margaret VII (W); Meach Lake VIII (Y).

### TRIGONOPHORA Hubn.

**T. periculosa** Guen. Metis VII-VIII (W); Cap a l' Aigle VII (W); Cowansville (Fy); Compton (Gosse); St. Johns VIII (C); Montreal VIII-IX (W); St. Margaret VII (W); Meach Lake VIII (Y).

**var. V-brunneum,** Grt. also occurs with usual form; food plant: plantain.

### EUCIRRODIA Grt.

**E. pampina** Guen. Cowansville (Fy); Montreal VIII-IX (W); Shawbridge IX (W); St. Margaret VIII (W); Meach Lake (Y); food plant: alder.

### TAPINOSTOLA Lederer

**T. variana** Morr. Meach Lake VII (Y).

### SCOLIOPTERYX Germ.

**S. libatrix** Linn. Cap a l'Aigle VII (W); Rimouski VIII (Gb); St. Hilaire VII (C); St. Hyacinthe (Fy); St. Johns VII (C); Montreal IV-VI hibernated; VII-X (W); Oka VI (W); St. Margaret VIII (W); food plants: willow, poplar, dielytra, peony.

### COSMIA Ochs.

**C. decolor** Walk. Levis (Fy); Montreal VIII (W); food plants: birch, aspen.

**C. punctirena** Smith. Montreal VIII (W).

### ORTHOSIA Ochs.

**O. belangeri** Morr. Metis VII-VIII (W); Rimouski VIII (Gb); Cap a l'Aigle VIII (W); Kamouraska VIII (W); Levis (Fy).

**O. helva** Grt Montreal VII-VIII (W).

### AMATHES Hubn.

**A. bicolorago** Guen. St. Hilaire VIII-IX (W); Montreal VIII-X (W); Meach Lake IX (F).
**var. ferruginoides** Guen. is the usual form probably 99 per cent. being the so-called variety.

**A. euroa** G. & R. Montreal VII-VIII (W); St. Margaret VIII (W); Meach Lake VIII (Y).

**O. ralla** G. and R. St. Hilaire VIII (C); Montreal VIII (W).

### PARASTICHTIS Hubn.

**P. discivaria** Walk. Metis VIII (W); Gomin Swamp near Quebec (Fy); St. Hilaire VIII (C); St. Johns VIII (C); Montreal VI-VIII (W).

### SCOPELOSOMA Curt.

**S. ceromatica** Grote. Montreal IX-X (W); food plant: oak.

**S. devia** Grote. Quebec (Fy); Montreal IX-X; food plants: apple, oak.

**S. indirecta** Walk. Montreal IX-X and IV hibernated (W).

**S. moffatiana** Grt. Montreal IX-X and IV-V hibernated (W); Como IX (W).

**S. morrisoni** Grt. Montreal IX-X (W); Como IX (Gb).

**S. pettiti** Grt. Montreal IX-X and IV hibernated (W).

**S. sidus** Guen. Quebec (Fy); St. Hilaire V (W); Montreal IX-X and hibernated IV (W); food plants: oak, apple, cherry.

**S. tristigmata** Grt. Montreal IX-X (W); food plants: strawberry, oak.

**S. walkeri** Grt. Montreal IX-X and IV hibernated (W); St. Johns (C); food plant: oak.

### GLAEA Hubn.

**G. inulta** Grt. Levis (Fy).

### HOMOGLAEA Morr.

**H. hircina** Morr. Montreal VIII (W); Rigaud (Des); food plants: vaccinium.

### IPOMORPHA Hubn.

**I. pleonectusa** Grt. Island of Orleans (Fy); Windsor Mills VIII (R); St. Johns VIII (C); Montreal VIII (W); Meach Lake VIII (G); food plants: poplar, willow.

### HELIOTHIS Ochs.

**H. armiger** Hubn. Montreal VIII (W); food plants: tomato, corn.

### RHODOPHORA Guen.

**R. florida** Guen. Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Montreal VII-VIII (W); food plant: evening primrose seed pods.

### LYGRANTHOECIA G. & R.

**L. brevis** Grt. Cowansville (Fy).

**L. marginata** Haw. Montreal VIII (W).

### HELIACA Herrich-Schaffer

**H. nexilis** Morr. St. Hilaire V (W).

### EUTHISANOTIA Hubn.

**E. grata** Fabr. Bedford (Fy); St Johns VII (C); St. Hilaire VII (W); Montreal VII (W) Meach Lake (Y); food plants: grape, virginia creeper.

**E. unio** Hubn. Bedford (Fy); St. Hilaire VII (W); Chateauguay VII (W); Montreal VI-VII(W); Rosemere VII (W); Meach Lake (Y); food plant: great willow herb.

### PLUSIODONTA Guen.

**P. compressipalpis** Guen. Montreal VI (W).

### CALPE Tr.

**C. canadensis** Beth. Levis (Fy); East Bolton VII (W); Windsor Mills (R); St. Johns (C); food plant: meadow rue.

### POLYCHRYSIA Hubn.

**P. formosa** Grt. Meach Lake VIII (Y).

### PANCHRYSIA Hubn.

**P. purpurigera** Walk. Island of Orleans (Fy); St. Hilaire VII (C); Montreal VII (W); food plant: meadow rue.

### PLUSIA Ochs.

**P. aerea** Hubn. Levis (Fy); St. Hilaire VII (W); Montreal VII-IX (W); Rigaud VIII (W); food plants: sunflower, verbena.

**P. aereoides** Grt. Metis VIII (W); Levis (Fy); St. Johns VIII (C); East Bolton VII (W); Montreal VII-VIII (W); St. Margaret VII (W); food plant: meadowsweet.

**P. balluca** Geyer. Levis (Fy); Compton (Gosse); Sherbrooke VIII (So); St. Hyacinthe (T); St. Johns (C); Montreal VII-VIII (W); Meach Lake VII (Y); food plant: hop.

### EUCHALCIA Hubn.

**E. contexta** Grt. Rimouski VIII (Gb); Levis (Fy); St. Hilaire VII (C); Montreal VII-VIII (W); St. Margaret VIII (W); food plant: grasses.

**E. putnami** Grt. Metis VIII (W); Cap a l'Aigle (W); Levis (Fy); Compton (Gosse); St. Hyacinthe (T); Windsor Mills (R); Montreal VII-VIII (W).

**E. venusta** Walk. St. Johns VIII (C); Como VIII (Gb).

### EOSPHOROPTERYX Dyar

**E. thyatiroides** Guen. Island of Orleans (Hm); Cowansville (Fy); Montreal VIII (N); St. Johns VII (C).

### AUTOGRAPHA Hubn.

**A. alias** Ottol. Metis VII-VIII (W); Rimouski VIII (Gb); Montreal VII-VIII (W); St. Therese (Mi); Shawbridge VII (W); food plant: beech.

**A. ampla** Walk. Metis VIII (W); Kamouraska VIII (W); Island of Orleans (Fy); St. Hilaire VIII (W); Montreal VIII (W); Meach Lake VI and VIII (Y).

**A. biloba** Steph. Montreal VI-VIII (W); Meach Lake VI (Y); food plants: peony, eupatorium.

**A. bimaculata** Steph. Metis VII-VIII (W); Rimouski VIII (Gb); Levis VIII (Fy); St. Margaret VII (W).

**A. brassicae** Riley. Levis (Fy); St. Hilaire VII (W); Montreal VI-VII (W); food plant: cabbage.

**A. epigaea** Grt. St. Hilaire IX (W); Montreal VIII-IX (W).

**A. falcigera** Kirby. Metis VII-VIII (W); Island of Orleans VIII (Hm); St. Hilaire V-VII (W); Montreal VI-X (W); St. Margaret VII (W); food plant: crucifers.

**A. flagellum** Walk. Metis VIII (W); Rimouski VIII (Gb); Como VIII (Fy).

**A. mappa** Grt. Metis VIII (W); Cap a l'Aigle VIII (W); Island of Orleans (Fy); St. Johns VI (C).

**A. octoscripta** Grt. Rimouski VIII (Gb); St. Hilaire VIII (C); Montreal VII-VIII (W).

**A. precationis** Guen. Metis VII-VIII (W); Levis VIII (Fy); St. Hilaire VIII (W); Compton (Gosse); East Bolton VII-VIII (W); Montreal VI-X (W); food plants: plantain, burdock.

**A. rectangula** Kirby. Metis VII-VIII (W); Rimouski VIII (Gb); Levis VIII (Fy); Lorette (Miss Freeman); Windsor Mills VII (R); East Bolton VII (W); Montreal VII-VIII (W); St. Therese (Mi); food plants: rudbeckia, geranium.

**A. rubidus** Ottol. Meach Lake VI (Y).

**A. selecta** Walk. Metis VIII (W); Rimouski VIII (Gb); Island of Orleans VIII (Hm); St. Hilaire VIII (W); Montreal VIII-IX (W); Meach Lake VIII (G).

**A. surena** Grt. Metis VIII (W); Rimouski VIII (Gb); Quebec VIII (Hubn).

**A. u-aureum** Guen. Levis (Fy); Island of Orleans (Hm).

### SYNGRAPHA Hubn.

**S. alticola** Walk. Gomin swamp near Quebec (Fy).

### ABROSTOLA Ochs.

**A. urentis** Guen. Metis VII (W); Levis (Fy); St. Hilaire VI-VII (C); Montreal VII-VIII (W); Meach Lake (Y).

### OGDOCONTA Butl.

**O. cinereola** Guen. St. Hilaire VII (C); East Bolton VII (W); Montreal VI-VIII (W); St. Margaret VII (W); food plant: rag-weed.

### MARASMALUS Grt.

**M. inficita** Walk. St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); food plant: poison-ivy.

### ALETIA Hubn.

**A. argillacea** Hubn. Quebec (Fy); St. Johns IX (C); Chateauguay (J); Montreal IX-X (W); Aylmer X (H); food plant: cotton plant in southern states. Does not breed in Canada, but migrates north as a moth in fall.

### ANOMIS Hubn.

**A. erosa** Hubn. Montreal 20 Sept. '05 (So). Another southern insect, one capture only on record; food plant: cotton and mallow.

### RIVULA Guen.

**R. propinqualis** Guen. Cowansville (Fy); East Bolton VII-VIII (W); St. Johns VI-VII (C); Montreal VI-VIII (W); Rigaud VII (W).

### EUSTROTIA Hubn.

**E. albidula** Guen. Metis VII (W); Island of Orleans (Fy); Windsor Mills VI (W); St. Hilaire VII (W); Montreal V-VII (W); Shawbridge VI (W).

**E. apicosa** Haw. Levis (Fy); Windsor Mills (R); St. Hilaire VII (C); Montreal VII (W).

**E. carneola** Guen. Metis VII (W); Levis (Fy); St. Hilaire VI (C); East Bolton VII (W); Montreal V-IX (W); Rigaud VI (W); St. Margaret VII (W); food plant: dock.

**E. concinnimacula** Guen. Island of Orleans (Fy Montreal VI (So); St. Hilaire VII (C); St.AdeleVI(W);LostRiverV-VI(Gb).

**E. muscosula** Brt. Levis (Fy); Windsor Mills VII (R); St. Hilaire VII (C); Montreal VI-VII (W); Rigaud VII (W); Meach Lake VII (F).

**E. panetella** Smith. St. Johns VII (C).

**E. synochitis** Grt. East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); Lost River V-VI (Gb); Hudson V (W); Calumet VI (W); Meach Lake VI (F).

### GALGULA Guen.

**G. hepara** Guen. St. Hilaire VII (C); Montreal VII-VIII (W).

### LITHACODIA Hubn.

**L. bellicula** Hubn. St. Hilaire VII (W); Montreal VII (W); Rosemere VII (W).

### CHAMYRIS Guen.

**C. cerintha** Tr. Metis VII (W); Levis (Fy); St. Hilaire VII (W); Montreal VI-VII (W); food plants: wild cherry, apple, plum.

### ACONTIA Ochs.

**A. aprica** Hub. Montreal VII (W).

**A. candefacta** Hubn. St. Hilaire VII (W); Montreal VI-VII (W); Rigaud VII (W); food plant: rag-weed.

**A. erastrioides** Guen. Levis (Fy); St. Hilaire VII (W); Montreal VII (W); food plant: rag-weed.

### METATHORASA Moore

**M. monetifera** Guen. Sherbrooke VII (So); Windsor Mills VII (R); St. Hilaire VII (W); Montreal VI-VII (W).

### EUHERRICHIA Grt.

**E. mollissima** Guen. St. Johns VII (C); St. Hilaire VII (W); Montreal (Fy).

### PHALAENOSTOLA Grt.

**P. larentoides** Grt. St. Hilaire VII (W).

### PANGRAPTA Hubn.

**P. decoralis** Hubn. East Bolton VII (W).

### HYAMIA Walk.

**H. 6-punctata** Grt. St. Hilaire VI-VII (C); Montreal VI (W).

### MELANOMMA Grt.

**M. auricinctaria** Grt. Montreal VI (C).

### HOMOPYRALIS Grt.

**H. contracta** Walk. Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VII (W); Chateauguay VII (W); Rigaud VII (W).

### DRASTERIA Hubn.

**D. erechtea** Cram. Metis VII-VIII (W); Rimouski VIII (Gb); Levis (Fy); East Bolton VII (W); St. Hilaire V-VII (W); Montreal V-IX (W); food plants: clover, grasses.

### EUCLIDIA Hubn.

**E. cuspidea** Hubn. Levis (Fy); St. Hilaire VII (W); St. Johns VI (C); Montreal V-VI (W); Shawbridge VI (W); food plant: clover.

### MELIPOTIS Hubn.

**M. limbolaris** Geyer. Gomin swamp near Quebec VI (W); Calumet VI (W).

### SYNEDA Guen.

**S. alleni** Grt. Montreal VI (W).

### EUPARTHENOS Grt.

**E. nubilus** Hubn. Montreal V and VIII-IX (2 broods) (W); food plant: locust.

### CATOCALA Schranck.

**C. amatrix** Hubn. Montreal VIII (W); food plants: willow, poplar.

**C. antinympha** Hubn. Quebec (B); Montreal (B).

**C. beaniana** Grt. Montreal VIII (W).

**C. briseis** Edw. Lorette (Miss Freeman); Cowansville (Fy); St. Johns VIII (C); St. Hilaire VIII (W); Montreal VIII-IX (W); Meach Lake VIII (G); food plant: willow.

**C. cerogama** Guen. Quebec (Fy); East Bolton VIII (W); St. Hilaire VII-VIII (W); Montreal VII-IX (W); Rosemere VIII (W); Meach Lake VIII (G); food plant: bass.

**C. coccinata** Grt. Montreal (B); food plant: oak.

**C. concumbens** Walk. Cowansville (Fy); Compton (Gosse); St. Johns VIII (C); Montreal VIII-IX (W); Rigaud VIII (W); Meach Lake VIII (G); food plants: willow, poplar.

**C. crataegi** Saund. Island of Orleans (Fy); St. Hilaire VII (C); Montreal VII-VIII (W); Oka VII (W); food plant: thorn.

**C. grynea** Cram. Montreal VII (W); food plants: apple, plum.

**C. habilis** Grt. Montreal (B); food plant: hickory.

**C. ilia** Cram. East Farnham (Fy); Montreal VII-VIII (W); Meach Lake VIII (G); food plant: oak.

**C. judith** Strk. Montreal VIII (N); food plant: hickory.

**C. meskei** Grt. Montreal (Henry Edwards); food plant: poplar.

**C. neogama** A. & S. St. Johns VIII (C); Montreal VIII-IX (W); food plants: oak, butternut, walnut.

**C. parta** Guen. Cowansville (Fy); St. Johns VIII (C); St. Hilaire VIII (W); Montreal VIII-IX (W); Rigaud VIII (W); food plants: willow, poplar.

Fig. 18.
*Catocala parta.*

**C. relicta** Walk. Levis VIII (Fy); Windsor Mills VIII (R); Montreal VIII-IX (W). The white form, clara Beut. is more common than the dark type. Food plants: poplar, birch, willow.

**C. retecta** Grt. Montreal VIII-IX (W); food plant: hickory.

**C. semirelecta** Grt. Montreal (B).

**C. similis** Edw. Montreal (B).

**C. subnata** Grt. East Farnham (Fy); Montreal VIII-IX (W); food plants: hickory, walnut.

**C. ultronia** Hubn. Windsor Mills VII (R); East Bolton VII (W); East Farnham (Fy); St Johns VIII (C); Montreal VII-VIII (W); Meach Lake VIII (G); food plants: plum, wild cherry, oak, apple.

**C. unijuga** Walk. Quebec (B); Cowansville (Fy); St. Johns VIII (C); Montreal VII-IX (W); Meach Lake VIII (G); food plant: poplar.

## PANOPODA Guen.

**P. rufimargo** Hubn. Cowansville (Fy); East Bolton VII (W); Montreal VII (W); Rigaud VIII (W); food plants: oak, bass, hickory, willow.

## PARALLELIA Hubn.

**P. bistriaris** Hubn. East Bolton VII (W); Windsor Mills VI (R); Cowansville (Fy); St. Johns VII (C); St. Hilaire VI (C); Montreal VI-VIII (W); Rigaud V (Des); food plant: maple.

### PHAEOCYMA Hubn.

**P. benesignata** Haw. Montreal VI (W).

**P. bethunei** Smith. Montreal VI (W).

**P. helata** Smith. Taken at Ottawa VI (Baldwin).

**P. lunata** Dru. Montreal VIII-IX (W); food plants: willow, maple, plum, cherry, rose.

**P. minerea** Guen. Montreal V-VI (W); food plant: willow.

**P. norda** Smith. St. Therese (Mi); Chelsea V-VI (G).

**P. obliqua** Gn. Bristol (F).

### EREBUS Latr.

**E. odora** Linn. Metis VIII (Reford); Quebec VIII (L'Abbe Huard); Montreal IX (D); Meach Lake VIII (Y); a migrant from the tropics.

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## Family HYPENIDAE

A group of small obscurely coloured moths commonly known as "Deltoids" from the triangular shape of wings at rest, resembling the Greek letter delta △. They are mostly to be found in thick woods flying up when disturbed. In many species the males are ornamented with tufts of hair on the legs or palpi. The larvae live on dried leaves, or other decaying vegetable matter.

### EPIZEUXIS Hubn.

**E. aemula** Hubn. Kamouraska VII-VIII (W); St. Hilaire VIII (W); East Bolton VII (W); Windsor Mills VII (R); Montreal VIII-IX (W); Rigaud VIII (W); Chelsea VII (G).

**E. americalis** Guen. St. Hilaire VIII (W); Montreal VI-IX (W); Chelsea VII (G).

**E. lubricalis** Geyer. East Bolton VII (W); St. Hilaire VII-VIII (C); St. Johns VIII (C); Montreal VIII-IX (W); Rigaud VIII (W); St. Margaret VIII (W); Meach Lake VII (Y).

**E. nigellus** Strk. St. Johns VII (C).

**E. rotundalis** Walk. Kamouraska VII (W); East Bolton VII (W); St. Johns VII (C).

### ZANCLOGNATHA Led.

**Z. laevigata** Grt. St. Johns VII (C); St. Hilaire VII (C); Montreal VII (W); Rosemere VII (W).

**Z. lituralis** Hubn. St. Hilaire VII (C); Montreal VII (W); Windsor Mills VI (W); East Bolton VII (W); St. Johns VII (C).

**Z. marcidilinea** Grt. Montreal VII (W).

**Z. ochreipennis** Grt. St. Johns VII (C); St. Hilaire VII (C); Montreal VII (W).

**Z. pedipilalis** Guen. Montreal VII-VIII (W); Rigaud VII (W).

**Z. protumnusalis** Walk. St. Therese (Mi).

### HORMISA Walk.

**H. absorptalis** Walk. St. Hilaire VII (W); Montreal VII-VIII (W); St. Johns VII (C).

### PHILOMETRA Grt.

**P. eumelusalis** Walk. St. Johns VII (C); Montreal VI-VII (W).
**P. metonalis** Walk. St. Johns VII (C); Montreal VI-VII (W); Montford VI (W); Chelsea VII (G).

### CHYTOLITA Grt.

**C. morbidalis** Guen. Levis (Fy); East Bolton VII (W); St. Johns VII (C); Phillipsburg VI (W); Montreal VI-VII (W); Rigaud VI (W).

### BLEPTINA Guen.

**B. caradrinalis** Guen. East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W).

### TETANOLITA Grt.

**T. mynesalis** Walk. St. Hilaire VII (W).

### RENIA Guen.

**R. flavipunctalis** Geyer Montreal VI-VII (W); Rigaud VII (W).

### HETEROGRAMMA Guen.

**H. pyramusalis** Walk. Orford VI (W); Montreal VI-VII (W); Piedmont VI (W); Newago VI (So).

### GABERASA Walk.

**G. ambigualis** Walk. East Bolton VIII (W); St. Hilarie VII (W); Montreal VIII (W).

### PALTHIS Hubn.

**P. angulalis** Hubn. Montreal VI-VII (W); Rigaud VII (W); St. Margaret VII (W); Meach Lake VII (Y).

### CAPIS Grt.

**C. curvata** Grt. St. Hilaire VII (W); St. Johns VII (C); Montreal VII (W).

### BOMOLOCHA Hbn.

**B. abalinealis** Walk. St. Johns VII (C); Montreal VII-VI (W); Rosemere VII (W); Newaygo VI (So); food plant: elm.

**B. baltimoralis** Guen. East Bolton VII (W); Windsor Mills (R); Sillery (Fy); St. Hilaire VII (C); Montreal V-VIII (W); food plant: maple.

**B. bijugalis** Walk. St. Johns VII (C); Montreal VI (W).

**B. deceptalis** Walk. Island of Orleans (Fy); St. Hilaire VII (C); Montreal VI-VII (W); Rigaud VII (W).

**B. edictalis** Walk. Island of Orleans (Fy); Montreal VII-VIII (W).

**B. madefactalis** Guen. Island of Orleans (Fy); St. Hilaire VI-VII (C); Montreal VI-VIII (W); Rigaud VII (W).

**B. mitographa** Grt. Montreal VI (W).

**B. scutellaris** Grt. Aylmer VI (G).

### LOMANALTES Grt.

**L. eductalis** Walk. East Bolton VII (W); Montreal VII-VIII (W); Newaygo VII (So).

### PLATHYPENA Grt.

**P. scabra** Fabr. Levis (Fy); St. Hilaire VIII (C); Montreal IX-X and hibernated IV (W); food plant: clover.

### HYPENA Schranck.

**H. humuli** Harr. Levis (Fy); St. Johns (C); Montreal VIII-X and hibernated IV-V (W); Newaygo VII (So); food plant: hop.

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## Family THYATIRIDAE

These are medium sized moths, similar in appearance to the Noctuids. The coloration of wings is soft grey and pink.

### EUTHYATIRA Smith.

**E. pudens** Guen. Montreal V-VI (W); food plant: dogwood.

### PSEUDOTHYATIRA Grt.

**P. cymatophoroides** Guen. Rimouski VIII (Gb); Levis (Fy); East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W); food plants: red oak, maple.

**P. expultrix** Grt. Metis VII-VIII (W); Cap a l'Aigle VIII (W); Chicoutimi VIII (W); Levis (Fy); St. Johns VII (C); Montreal VI-VII (W); St. Therese (Mi); food plants: birch, maple.

### THYATIRA Ochs.

**T. rectangulata** Ottol. Metis VII (W); Cap a l'Aigle VII (W); Island of Orleans (Fy); Montreal VII (W).

**T. scripta** Gosse. Metis VII-VIII (W); St. Fabien VII (C); Quebec VII (W); Compton (Gosse); Cowansville (Fy); St. Hilaire VII (W); Chateauguay VII (J); Montreal VI-VII (W); Hudson V (W); Arundel VI-VII (D'U); Newaygo VII (So); food plants: raspberry, bass.

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## Family NOTODONTIDAE

These are medium sized moths, with a poorly developed tongue and short antennae. The thorax is short and square and into it the head is retracted. The abdomen is long and cylindrical.The wings are long and often the inner margins of fore pair are produced into a lobe or tooth. The caterpillars are mostly smooth, ornamented with stripes and curious patterns. Most species enter the ground for pupation.

### MELALOPHA Hubn.

**M. albosigma** Fitch. Metis VII (W); Sherbrooke VII (So); St. Johns VII-VIII (C); Montreal V-VI (W); Lost River V-VI (Gb); food plants: willow, poplar.

**M. apicalis** Walk. (=vau Fitch); Montreal VI (W); food plants: willow poplar.

**M. inclusa** Hubn. Levis (Fy); St. Johns VII (C); Montreal V-VI (W); food plants: poplar, willow.

### DATANA Walk.

**D. angusii** G. & R. Cowansville (Fy); St. Johns VII (C); St. Hilaire VII (C); Montreal VI-VII (W); food plants: hickory, walnut, huckleberry.

**D. drexelii** Hy. Edw. Montreal VI (W); food plants: bass, vaccinium.

**D. integerrima** G. & R. St. Hilaire VII (C); Montreal VI-VII (W); St. Therese (Mi); food plants: hickory, beech, walnut, oak.

**D. ministra** Dru. East Bolton VII (W); St. Hilaire VI-VII (G); Montreal VI (W); Rosemere VI (W); food plants: bass, cherry, birch, elm, oak, hickory, beech.

### ODONTOSIA Hubn.

**O elegans** Strk. Actonvale (Fy); St. Johns VII (C); Montreal VI (W); Lost River VI (Gb).

### HYPERAESCHRA Butl.

**H. georgica** H.S. Montreal VI and VIII (W); 2 broods; food plants: oak, wild cherry.

**H. stragula** Grt. Cowansville (Fy); St. Hyacinthe (T); Montreal VI-VII (W); Vandreuil (W); Meech Lake (Y); food plants: poplar, hazel, willow.

### NOTODONTA Ochs.

**N. basitriens** Walk. Cowansville (Fy); Montreal VII (C).

### PHEOSIA Hubn.

**P. dimidiata** H.S. Metis VII (W); Quebec VI (Fy); Windsor Mills VI (R); St. Hilaire V-VI (W); St. Johns VII (C); Montreal VI (W); food plants: willow, poplar.

### LOPHODONTA Pack.

**L. angulosa** A. & S. Montreal VI (W); Sorel VII (W); Newaygo VII (So); food plant: oak.

**L. ferruginea** Pack. Quebec (Fy); St. Hyacinthe (T); Montreal VII (W); Newaygo VII (So); food plant: birch.

### NADATA Walk.

**N. gibbosa** A. & S. Levis (Fy); St. Hyacinthe (T); Montreal VI (W); food plants: oak, maple, birch, apple.

### NERICE Walk.

**N. bidentata** Walk. Metis VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Como (Fy); food plant: elm.

### SYMMERISTA Hubn.

**S. albifrons** A. & S. East Bolton VII (W); Sherbrooke VII (So); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Como (Fy); St. Therese (Mi); food plants: oak, bass.

### DASYLOPHIA Pack.

**D. anguina** A. & S. Montreal VII (W); food plants : locust, clover.

**D. thyatiroides** Walk. Levis (Fy); food plants: hickory.

### HETEROCAMPA Doub.

**H. bilineata** Pack. Montreal VI (C); food plants: elm, oak, beech.

**H. biundata** Walk. Sillery (Fy); St. Hilaire VI (C); St. Johns VII (C); food plants: apple, elm, oak.

**H. guttivitta** Walk. Quebec (Fy); St. Hilaire V (C); Montreal V-VI (W); Meach Lake VI (F); food plant: oak, beech, hickory, maple.

**H. manteo** Doubl. Bergerville (Fy); Meach Lake VI (G); food plants: bass, apple, walnut.

**H. pulverea** G. & R. Montreal VI; food plant: oak.

### FENTONIA Butl.

**F. marthesia** Cram. Bergerville (Fy); St. Therese (Mi); food plants: oak, hickory, beech.

### IANASSA Walk.

**I. lignicolor** Walk. Qubec VIII (Bn); Montreal VII (C); St. Therese (Mi); food plants: oak, beech, birch.

### SCHIZURA Doubl.

**S. badia** Pack. Montreal (Cd); St. Therese (Mi).

**S. concinna** A. & S. Quebec VI (Fy); "Eastern Tps." (Fy); Montreal VI (W); food plant: apple.

**S. ipomoeae** Doubl. East Bolton VII (W); St. Johns VII (C); Montreal VI (W); St. Therese (Mi); food plants: oak, birch, maple, raspberry.

**S. leptinoides** Grt. St. Fabien VII (C); food plants: oak, beech, hickory, butternut.

**S. semirufescens** Walk. Levis (Fy); St. Johns (C); food plants: willow, maple, apple.

**S. unicornis** A. & S. Metis VII (W); Levis (Fy); East Bolton VII (W); St. Johns VII (C); St. Hilaire VI (C); Montreal VI-VII (W); Rigaud VII (W); Newaygo VII (So); food plants: apple, plum, rose, elder, raspberry.

### CERURA Schrank

**C. occidentalis** Lintn. Montreal V (W); food plants: willow, cherry, poplar.

**C. scitiscripta** Walk. Cowansville (Fy); Meach Lake (Y); food plants: willow, poplar.

### HARPYIA Ochs.

**H. borealis** Bd. Levis (Fy); St. Hyacinthe (T); Montreal V-VI (W); food plant: wild cherry.
**H. cinerea** Walk. Levis (Fy); Montreal V-VI (W); Calumet VI (W); food plants: poplar, willow.
**H. scolopendrina** Bd. Levis (Fy); Montreal V-VI (W); food plant: willow.

### GLUPHISIA Bdv.

**G. lintneri** Grt. Montreal V (So).

**G. septentrionalis** Walk. Levis (Fy); St. Johns VII (C); Montreal VI (W); Meach Lake (Y); food plants: poplar, willow, birch.

### ELLIDA Grt.

**E. caniplaga** Walk. St. Hilaire V-VI (W); Montreal V-VI (W); Lost River V-VI (Gb).

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## Family LIPARIDAE

This family comprises the well known "Tussock Moths." They are of small or medium size, the males with broad wings and very pectinated antennae, and in the first two genera mentioned the females are wingless merely crawling out on the top of their cocoons to deposit their eggs in the familiar clusters. The hairy fore pair of legs are extended forward when the moths are at rest. The caterpillars are very showy, being ornamented with tufts of hair, on the back, at the sides, and extremities. They make a cocoon on the bark of the trees. N. antiqua is always double brooded, the other species partially so, in some favourable seasons.

### NOTOLOPHUS Germar.

**N. antiqua** Linn. Metis VIII (W); Levis X (Fy); Compton (Gosse); East Bolton (W); St. Hilaire VI (W); St. Johns X (C); Montreal VI-VII and IX-X (W); Rigaud (W); food plants: bass, maple, dogwood, elm, hawthorn.

### HEMEROCAMPA Dyar.

**H. definita** Pack. Windsor Mills VII (W); St. Hilaire VII (C); Montreal VII (W); food plants: beech, bass.

**H. leucostigma** A. & S. Quebec VII (W); Cowansville (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VII-VIII (some seasons IX-X) (W); St. Margaret VII (W); food plants: shade trees generally, except conifers.

### OLENE Hubn.

**O. achatina** A. & S. East Bolton VII (W); Montreal VII (W); food plants: bass, oak, hickory.

**O. plagiata** Walk. St. Johns VII (C); Montreal VII (W); food plants: oak, hickory, elm.

## Family LASIOCAMPIDAE

These are stout, hairy, medium size, with a small retracted head, pectinated antennae and short tongues. The wings are short and broad usually brown or grey, with parallel medium crosslines. The caterpillars are the "lappet" or "tent caterpillars" and in some seasons occur in enormous numbers entirely defoliating great tracts of orchards and forests.

### TOLYPE Hubn.

**T. laricis** Fitch. Bergerville (Fy); Montreal (B); food plants: larch, hemlock, pine.

**T. velleda** Stoll. Cowansville (Fy); St. Johns IX (C); St. Hilaire IX (C); Montreal IX (W); Hull IX (Fy); food plants: apple, poplar, lilac, oak, elm, maple, cherry.

### MALACOSOMA Hubn.

**M. americana** Fabr. East Bolton VII (W); Cowansville (Fy); St. Hilaire VII (W); Montreal VII (W); Chateauguay VII (J); Shawbridge VII (W); Newaygo VII (So); food plants: apple, choke cherry, hawthorn.

Fig. 18.
*Malacosoma americana, Female and pupa.*

**M. disstria** Hubn. Levis (Fy); Windsor Mills VII (W); East Bolton VII (W); Cowansville (Fy); Montreal VII (W); Shawbridge VII (W); St. Agathe VII (W); Newaygo VII (So); food plants: forest trees except conifers.

### EPICNAPTERA Ram.

**E. americana** Harr. St. Johns VII (C); St. Hilaire V-VI (W); Montreal V-VI (W); the variety ferruginea Pack. occurs with type; food plants: choke cherry, apple, oak, beech, ash, poplar.

## Family DREPANIDAE

Small to medium sized moths, with broad wings, the front pair usually falcate giving them the popular name of "hook-tips."

### EUDEILINEA Pack.

**E. herminiata** Guen. Levis (Fy); food plant: dogwood.

### FALCARIA Haw.

**F. bilineata** Pack. Quebec VII (W); Cowansville (Fy); Windsor Mills VI (W); Phillipsburg VI (W); St. Johns VII (C); Montreal V-VII (W); Lost River V-VI (Gb); food plant: birch.

### ORETA Walk.

**O. irrorata,** Pack. Rimouski VIII (Gb); Cowansville (Fy); St. Johns VII (C).

**O. rosea** Walk. Cowansville (Fy); St. Johns VII (C); Montreal VIII (W); food plant: viburnum.

### DREPANA Schrank

**D. arcuata** Walk. Metis VII (W); Windsor Mills VI (W); Cowansville (Fy); East Bolton VII (W); St. Hilaire V (W); St. Johns VI (C); Montreal V-VII (W); Hudson V (W); Lost River V-VI (Gb.); St. Margaret VII (W); food plants: birch, alder.

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## Family GEOMETRIDAE

This family includes moths of small and medium sizes, usually with slender bodies and rather thin frail wings, which are usually kept extended when at rest. The cross lines on the forewings are often continued across the hind wings.

The larvae are called " loopers " or " measuring worms " from their manner of walking. The abdominal legs are mostly missing and the caterpillar progresses by curving its body up in the middle bringing the tail close to the thoracic legs, then extending the fore part flat with the twig or leaf taking firm hold with the legs, then draw forward the hind part again, and so on. When resting the larvae often stretch the body out straight at an angle with the plant and closely resemble twigs.

### DYSPTERIS Hubn.

**D. abortivaria** H. S. Rimouski VIII (Gb); St. Hilaire V (C); St. Johns VII (C); Montreal V-VI (W); Como VI (Gb); food plant: grape.

### NYCTOBIA Hulst

**N. anguilineata** Grt. Levis (Fy); St. Hilaire V (C); Montreal V (W).

**N. limitaria** Walk. Quebec (B); St. Hilaire V (W); Montreal V (W); Lost River V (Gb); Newaygo VI (So); food plant: June berry.

**N. viridata** Pack. St. Johns V (C); Montreal V-VI (W); Meach Lake V (Y).

### CLADARA Hulst

**C. atroliturata** Walk. Levis (Fy); St. Hilaire V (C); St. Johns V (C); Montreal V (W); Shawbridge VI (W); Calumet V-VI (W).

### RACHELA Hulst

**R. bruceata** Hulst. Montreal X-XI (W); food plant: apple.

### ALSOPHILA Hubn.

**A pometaria** Peck. Cowansville (Fy); Montreal X-XI (W); Chelsea (Fy); foodplants: apple, plum, oak, bass.

Fig. 19.
*Alsophila pometaria* (the fall cankerworm).
*a*, male; *b*, female.

### EUDULE Hubn.

**E. mendica** Walk. East Bolton VII (W); Windsor Mills VI (W); St. Hilaire VI (W); St. Johns VI-VII (C); Montreal VI-VII (W); Rigaud VII (W); food plant: violets.

### LOBOPHORA Curt.

**L. nivigerata** Walk. St. Fabien VII (C); Quebec (B); St. Hilaire V-VI (W); St. Johns VII (C); Montreal V-VI (W); Rigaud VI (C); Shawbridge VI (W); Newaygo VI (So).

### NANNIA Hulst

**N. refusaria** Walk. Levis (Fy); Mt. Orford VI (W); St. Johns VI (D); Montreal VI (W).

### HETEROPHLEPS H.-S.

**H. triguttaria** H. S. Island of Orleans (Fy); East Bolton VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Rigaud VII (W); food plant: maple.

## EUPITHECIA Curt.

**E. albicapitala** Pack. Quebec (B); Montreal VI (W); Meach Lake VI (Y).

**E. casloata** Dyar. Meach Lake VIII (Y).

**E. catskillata** Pears. St. Hilaire V (C).

**E. chagnoni** Swett. Montreal VII-VIII (C).

**E. cimicifugata** Pears. Montreal VI (C).

**E. coagulata** Guen. St. Johns VI (C); Montreal VI (W).

**E. erpata** Pears. St. Hilaire V (W); Montreal V-VI (W); Meach Lake (Y).

**E. fasciata** Taylor. Ottawa district VI-VII (G).

**E. fletcherata** Taylor. Ottawa district VIII-IX (Y).

**E. fumata** Taylor. Ottawa district VI (Y).

**E. gibsonata** Taylor. Ottawa district IV-V (Y).

**E. grata** Taylor. Ottawa district VI. (Y).

**E. interruptofasciata.** Hull (Metcalfe).; food plant: juniper.

**E. latipennis** Hulst. Quebec (Hm); Montreal VI-VII (C); Meach Lake VI (Y).

**E. luteata** Pack. Meach Lake VI (Y).

**E. packardata** Taylor. St. Hilaire IX (C).

**E. palpata** Pack. Hudson VI (C).

**E. quebecata** Taylor. Kamouraska VII (W); Montreal VI (W).

**E. raveocostaliata**. Ottawa district V (Y).

**E. russeliata** Swett. St. Fabien VII (C).

**E. togata** Hubn. Near Quebec (Prout).

**E. winnata** Taylor. Montreal V-VI (W).

**E. youngata** Taylor. Meach Lake VI (Y).

## EUCYMATOGE Hubn.

**E. intestinata** Guen. Levis (Fy); St. Hilaire VI (C); East Bolton VII (W); St. Johns VII (C); Montreal VI (W); Rigaud VI (C); Lost River V-VI (Gb).

## VENUSIA Curt.

**V. cambrica** Curt. St. Fabien VII (C); Riviere du Loup VI (Ba); Island of Orleans (Fy); Montreal V (W); Newaygo VII (So).

### EUCHOECA Hubn.

**E. albifera** Walk. Windsor Mills VI (W); Montreal VI (W); food plant: elm.

**E. comptaria** Walk. St. Fabien VII (C); Island of Orleans (Fy); Montreal V (W); food plants: beech, alder.

**E. inornata** Hulst. St. Hilaire VII (C); Montreal VII (W); Rigaud VII (C); Sherbrooke VII (So).

**E. lucata** Guen. St. Hilaire V (W); Montreal V-VI (W); Lost River V-VI (Gb).

### TRICHODEZIA Warren

**T. albovittata** Guen. Metis VII (W); St. Fabien VII (W); Levis (Fy); East Bolton VII (W); St. Hilaire V-VI (W); St. Johns V (C); Montreal V-VI (W); Hudson V (W); Lost River V (Gb); Shawbridge VI (W); Newaygo VI (So).

### EPIRRITA Hubn.

**E. dilutata** D. & S. Levis VIII-IX (Fy); Montreal IX (W); food plant: birch, oak, elm.

### HYDRIA Hubn.

**H. undulata** Linn. Metis VII (W); Cap a l'Aigle VII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VI (W); Shawbridge VII (W); food plant: wild cherry.

### EUSTROMA Hubn.

**E. atrocolorata** Grt. Metis VIII (W).

**E. destinata** Moeschl. Metis VII (W); Cap a l'Aigle VIII (W).

**E. diversilineata** Hubn. Metis VII (W); Levis (Fy); St. Hilaire VIII (W); East Bolton VII (W); St. Johns VII (C); Montreal VII-VIII (W); Rosemere VIII (W); Meach Lake VIII (Y); food plants: grape and Virginia creeper.

**E. explanata** Walk. Metis VIII (W); Kamouraska VIII (W); St. Hilaire VII (C); Montreal VII (W).

**E. nubilata** Pack. Rimouski VIII (Gb).

**E. propulsata** Walk. Metis VIII (W); Rimouski VIII (Gb); St. Hilaire VI (C); food plant: blueberry.

**E. testata** Linn. Metis VIII (W); Cap a l'Aigle VIII (W); Levis (Fy); St. Hilaire IX (W); Montreal VIII-IX (W); food plants : willow, birch.

**E. triangulata** Pack. Metis VIII (W); Rimouski VIII (Gb); St. Margaret VIII (W); food plant: gooseberry.

### RHEUMAPTERA Hubn.

**R. hastata** Linn. Metis VII (W); St. Fabien VII (C); Ha Ha Bay VII (Sa); Levis (Fy); Windsor Mills VI (W); St. Hilaire VI (C); Montreal V-VI (W); Rigaud VI (W); food plants: birch, willow, blueberry.

**R. luctuata** D. & S. Quebec (B); Montreal VI (W); Montfort VI (W); Shawbridge VI (W).

**R. sociata** Bork. Phillipsburg VI (W); St. Hilaire V-VI (C); St. Johns VI-VII (C); Montreal VI (W); Hudson V. (W); foodplant: galium.

### ORTHONAMA Hubn.

**O. centrostrigaria** Walk (syn. latirupta). Levis (Fy); St. Hilaire V-VI (W); Montreal VI and IX (W); food plant: polygonum.

**O. obstipata** Fabr. (syn. fluviata). Levis (Fy); East Bolton VII (W); St. Hilaire VIII (W); St. Johns VIII (C); Montreal VIII-IX (W); Rosemere IX (W); food plants: elm, smartweed.

### EUTEPHRIA Hubn.

**E. aurata** Pack. Metis VIII (W); Cap a l'Aigle VIII (W); Levis (Fy); Meach Lake (Y); food plant: blueberry.

### MESOLEUCA Hubn.

**M. citrata** Linn. Metis VIII (W); Rimouski VIII (Gb); Quebec (B); Windsor Mills VI-VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); food plant: strawberry. (*M. truncata of lists.*)

**M. hersiliata** Guen. Metis VII (W); Quebec (B); St. Hilaire VII (C); St. Johns VII (C); Montreal VI (W).

**M. intermediata** Guen. East Bolton VII (W); St. Hilaire V-VI (W); Montreal V-VI (W); food plant: jewel weed.

**M. lacustrata** Guen. Levis (Fy); Phillipsburg VI (W); St. Hilaire V (C); Montreal V-VII (W); Hudson V (W); food plants: birch, raspberry.

**M. ruficillata** Guen. Metis VII (W); Quebec (B); Compton (Gosse); Sherbrooke VII (So); Cowansville (Fy); St. Hilaire V (C); Montreal V-VIII (W); Lost River V-VI (Gb); Shawbridge VI (W); food plant: birch.

**M. silaceata** Hubn. Metis VII (W); St. Hilaire V (C); Montreal V-VI (W).

**M. vasiliata** Guen. Levis (Fy); St. Hilaire V (W); Montreal V-VI (W); Lost River V-VI (Gb); food plants: blackberry, rose.

### HYDRIOMENA Hubn.

**H. autumnalis** Strom. Metis VII (W); Levis VII (W); St. Hilaire VII (C); Montreal VI-VII (W); St. Margaret VIII (W); food plants: willow and poplar.

**H. furcata** Thunb. Metis VIII (W); Cap a l'Aigle VIII (W); Rimouski VIII (Gb); Levis (Fy); food plant: probably poplar.

**H. ruberata** Freyer. Montreal VII (W); food plant: alder.

### LARENTIA Dup.

**L. basaliata** Walk. Levis (Fy); St. Margaret VII (W).
**L. multiferata** Walk. Quebec (B); East Bolton VII (W); St. Johns VII (C); Rigaud VII (W).

### TRIPHOSA Steph.

**T. indubitata** Grote. Metis VIII (W); Levis (Fy); St. Hilaire V (W); Montreal IV and V, hibernated and IX-X (W).

### COENOCALPE Hubn.

**C. gibbicostata** Walk. Quebec VIII (W); Montreal VIII-IX (W); St. Therese IX (W); food plant: maple.

**C. magnoliata** Guen. Levis (Fy); Sherbrooke VI (So); Windsor Mills V (R); St. Hilaire V (W); Montreal V, VI and IX (W); food plant: epilobium.

### GYPSOCHROA Hubn.

**G. designata** Hufn. Metis VII (W); Rimouski VIII (Gb); Levis (Fy); East Bolton VII (W); St. Hilaire V (W); Montreal V-VI (W); Hudson V (W); St. Margaret VII (W); Newaygo VI (So); food plants: crucifers.

### XANTHORHOE Hubn.

**X. anticostiaria** Strk. Anticosti is type locality.

**X. ferrugata** Clerck. Quebec (B); East Bolton VII (W); St. Hilaire V (W); St. Johns V (C); Montreal V-VI (W); Hudson V (W); food plants: sandwort, ground ivy.

**X. iduata** Guen. St. Fabien VII (C); St. Johns (C).

**X. munitata** Hubn. Metis VII-VIII (W); Rimouski VIII (W); Cap a l'Aigle VIII (W); food plant: groundsel.

**X. unidentaria** Haw. St. Hilaire V (W); Montreal V-VI (W).

### HAEMATOPSIS Hubn.

**H. grataria** Fabr. Cowansville (Fy); East Bolton VII (W); Phillipsburg VI (W); St. Hilaire VII (C); Montreal V-IX (W); food plant: polygonum.

### COSYMBIA Hubn.

**C. lumenaria** Hubn. Island of Orleans (Fy); East Bolton VII (W); St. Hilaire VII (W) St. Johns VII (C); Phillipsburg VI (W); Montreal VI-VII (W); Rigaud VII (W); food plant: sweet fern.

### SYNELYS Hulst

**S. enucleata** Guen. Metis VII (W); Kamouraska VII (W); Island of Orleans (Fy); Sherbrooke VII (So); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Rigaud VII (W); food plants: bed straw, blueberry.

### XYSTROTA Hulst

**X. hepaticaria** Guen. Quebec (B).

### CINGLIS Guen.

**C. purata** Guen. Metis VII (W).

**C. similaria** Walk. Levis (Fy).

### LEPTOMERIS Hubn.

**L. frigidaria** Moeschl. Montreal VI (W).

**L. inductata** Guen. St. Fabien VII (C); Phillipsburg VI (W); East Bolton VII (W); St. Hilaire VI-VII (C); Montreal VI-VII (W).

**L. sentinaria** Hubn. Gomin Swamp, near Quebec (Fy).

### EOIS Hubn.

**E. peralbata** Pack. St. Johns (C).

**E. persimilis** Hulst. Quebec (Hm).

### CHLOROCHLAMYS Hulst

**C. chloroleucaria** Guen. Quebec (Fy); East Bolton VII (W); Phillipsburg VI (W); St. Hilaire V-VI (W); Montreal V-VI (W); Lost River V-VI (Gb); St. Margaret VII (W); food plants: flowers of raspberry, blackberry, sunflower.

### CHLORISSA Steph.

**C. subcroceata** Walk. Levis (Fy); Sherbrooke VII (So); St. Hilaire V (W); Montreal V (W).

### MESOTHEA Warren

**M. incertata** Walk. Gomin Swamp, near Quebec (Fy).

### SYNCHLORA Guen.

**S. aerata** Fabr. East Bolton VII (W); St. Hilaire VII (W); Montreal VII (W); St. Margaret VII (W); food plants: raspberry, blackberry.

### NEMORIA Hubner

**N. mimosaria** Guen. St. Hilaire V (W); St. Margaret VII (W); Newaygo VI (So); food plant: oak.

### DICHORDA Warren.

**D. iridaria** Guen. Meach Lake (Y); food plant : sumac.

### RACHEOSPILA Guenée

**R. extremaria** Walk (=rubromarginaria Pack). Montreal VI (Cd).

### EPELIS Hubn.

**E. truncataria** Walk. Gomin Swamp, near Quebec VI (Fy); food plant: bear berry.

**E. faxonii** Minot. Gomin Swamp, near Quebec (Fy); Eastman VI (W); Montreal VI (W); Lost River V-VI (Gb); St. Therese (Mi) ; food plant: larch.

### EUFIDONIA Pack.

**E. notataria** Walk. Metis VII (W); St. Fabien VII (W); Quebec VI (Fy); Montreal VI (W); Hudson V-VI (W); Lost River V-VI (W); St. Margaret VII (W); food plants: white pine, hemlock.

### ORTHOFIDONIA Pack.

**O. exornata** Walk. St. Hilaire V (W); Montreal V-VI (W); Eastman VI (W); Hudson V (W).

### CORYCIA Dup.

**C. semiclarata** Walk. Levis VI (Fy); St. Hilaire V (W); St. Johns VI (C); Windsor Mills VI (W); Montreal V-VI(W); Shawbridge VI (W); Newaygo V (C).

**C. vestaliata** Guen. Island of Orleans (Fy); St. Hilaire V (W); Montreal V-VI (W); Hudson V (W); Shawbridge VI (W); Newaygo V (C); food plants: wild cherry, apple.

### PHYSOSTEGANIA Warren

**P. pustularia** Guen. Levis (Fy); East Bolton VII (W); St. Johns VII (C); St. Hilaire VI (W) Montreal VI-VII (W); Rosemere VII (W); St. Margaret VII (W); Newaygo VII (So); food plant: maple.

### GUENERIA Pack.

**G. basiata** Pack. East Bolton VII (W); Montreal VI-VII (W); Lost River V-VI (Gb).

### DEILINIA Hubn.

**D. erythremaria** Guen. Quebec (B); Montreal VI (W); Hudson V (W).

**D. variolaria** Guen. Quebec (B); East Bolton VII (W); St. Hilaire V-VI (W); Montreal V-VI (W); food plant: willow.

### SCIAGRAPHIA Hulst

**S. flavivenata** Hulst. Quebec (Hm).

**S. granitata** Guen. Metis VII (W); Levis (Fy); St. Hilaire V-VI (W); East Bolton VII (W); St. Johns VII (C); Montreal VI-VIII (W); Hudson V-VI (W); St. Margaret VII (W).

**S. heliothidata** Guen. East Bolton VII (W); Montreal VI-VII (W); food plant: locust.

**S. mellistrigata** Grt. Levis (Fy); East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W); Rigaud VI (W).

### PHILOBIA Dup.

**P. enotata** Guen. Metis VII (W); Levis VII (Fy); St. Johns VII (C); Montreal VI-VII (W); Lost River V-VI (Gb); food plants: poplar, willow.

### MACARIA Curt.

**M. bisignata** Walk. Montreal VI-VII (W); St. Margaret VII (W); food plant: probably pine.

**M. glomeraria** Grt. East Bolton VII (W); St. Hilaire V-VI (C); Montreal V-VI (W).

**M. minorata** Pack. Montreal VI (W); Hudson V-VI (W).

**M. praeatomata** Haw. St. Johns VII (C); Montreal VI (W); Rigaud VI (W); food plant: blueberry.

### DIASTICTIS Hubn.

**D. flavicaria** Pack. St. Hilaire VI (W); St. Johns VI (W); Phillipsburg VI (W); food plant: gooseberry.

**D. inceptaria** Walk. St. Hilaire VI (W); Phillipsburg VI (W); Montreal VI (W); Mt. Johnson VI (W); food plants: cranberry, blueberry.

**D. latiferrugata** Walk. Metis VIII (W); Quebec (B); St. Hilaire VII (C).

**D. ribearia** Fitch. Levis (Fy); Sherbrooke VII (So); East Bolton VII (W); Montreal VII (W); Rosemere; food plants: currant and gooseberry.

**D. subcessaria** Walk. Metis VII (W); Levis (Fy); St. Hilaire VII (C).

**D. wauaria** Linn. St. Johns VI (C); St. Hilaire VII (C); food plant: gooseberry.

### HOMOCHLODES Hulst

**H. fritillaria** Guen. Quebec (B); St. Hilaire V (W); Montreal V-VI (W).

### APAECASIA Hulst

**A. defluata** Walk. Levis (Fy); Windsor Mills VI (W); St. Hilaire V (W); Montreal V (W); Hudson V (W); Shawbridge VI (W); Newaygo VI (W); food plants: grasses.

**A. detersata** Guen. Quebec (B); St. Hilaire V (W); Phillipsburg VI (W); Montreal V-VI (W); Newaygo VI (So).

### CARIPETA Walk.

**C. angustiorata** Walk. St. Hilaire VII (W); St. Johns VII (C); East Bolton VII (W); food plant: pine.

**C. criminosa** Swett. St. Johns VII (C).

**C. divisata** Walk. Rimouski VIII (Gb); Riviere du Loup VII (Gb); Bergerville VII (Fy); Sherbrooke VII (So); East Bolton VII (W); St. Hilaire VII (W) St. Johns VII (C); food plants: pine, hemlock.

### NEPYTIA Hulst

**N. semiclusaria** Walk. Levis (Fy); Montreal VIII-IX (W); Rosemere IX (W); food plants: fir, spruce, hemlock.

### ALCIS Curt.

**A. sulphuraria** Pack. Montreal VIII (Stevenson).

### PARAPHIA Guen.

**P. subatomaria** Wood. Levis (Fy); St. Hilaire VII (C); St. Johns VII (C); East Bolton VII (W); Windsor Mills VII (R); Montreal VI-VII (W); Rigaud VII (W); food plants: bass, beech, spruce, pine.

### LYTROSIS Hulst

**L. unitaria** H. S. St. Hilaire V (W); St. Johns VII (C); Montreal V-VI (W).

### SELIDOSEMA Hubn.

**S. humaria** Guen. Quebec (B); East Bolton VII (W); St. Johns VI (C); Montreal VI (W).

### CLEORA Curt.

**C. indicataria** Walk. St. Fabien VII (C); St. Johns VII (C); Montreal VI-VII (W).

**C. larvaria** Guen. Levis (Fy); Windsor Mills VII (R); East Bolton VII (W); Montreal VI (W); Oka VI (W); food plant: wild cherry.

**E. pampinaria** Guen. Quebec (B); East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VII (W); food plants: poplar, apple, bass, strawberry.

**C. takenaria** Pears. St. Johns VII (C); Montreal VII (C); East Bolton VII (W); Rigaud VII (W).

### MELANOLOPHIA Hulst

**M. canadaria** Guen. Metis VII (W); Levis (Fy); St. Hilaire V (W); East Bolton VII (W); Windsor Mills VI (R); Montreal V-VI (W); Hudson V (W); Newaygo VI (So); Chelsea VII (G); food plants: spruce, pine, hemlock.

### AETHALOPTERA Hulst

**AE. intertexta** Walk. Montreal VI (W); St. Johns VI (C).

### ECTROPIS Hubn.

**E. crepuscularia** D. & S. Levis (Fy); St. Hilaire V (W); East Bolton VII (W); St. Johns VII (C); Montreal V-VI-VII (W); Hudson V (W); St. Therese (Mi); food plants: maple, elm, apple, plum.

**E. divisaria** Walk. Quebec (B); St. Hilaire V (W); Montreal V-VI (W); Rouge River (D'U.).

### LYCIA Hubn.

**L. cognataria** Guen. Levis (Fy); St. Hilaire VII (C); Montreal VI-VII (W); food plants: gooseberry, currant, birch.

**L. ursaria** Walk. Quebec V (B); Montreal IV-V (W); food plants: poplar, elm.

### NACOPHORA Hulst

**N. quernaria** A & S. Montreal VI (B); food plants: oak, hawthorn.

### PALEACRITA Riley

**P. vernata** Pack. Levis (Fy); St. Hilaire V (W); Montreal IV-V (W); food plants: apple, etc.

### PHIGALIA Dup.

**P. titea** Cram. Montreal IV-V (W); Rigaud IV (Des.); food plants: maple, elm, birch.

### ERANNIS Hubn.

**E. tiliaria** Harr. Quebec (B); Isle of Orleans (Fy); St. Hilaire IX (W); Montreal IX-X (W); food plants: bass, elm, apple.

### CINGILIA Walk.

**C. catenaria** Dru. Quebec (Fy); Montreal VIII-X (W); food plants: blueberry, sedges, golden rod, oak, poison-ivy.

**C. rubiferaria,** Swett. Montreal X (W); Quebec X (Hm).

### ANAGOGA Hubn.

**A. pulveraria** Linn. Levis (Fy); Newaygo VI (So); food plants: willow, poplar, maple, hazel, birch.

### SICYA Guen.

**S. macularia** Harr. Metis VIII (W); Rimouski VIII (Gb); Quebec (B); Cowansville (Fy); East Bolton VII (W); St. Johns VII (C); St. Hilaire VII (W); Montreal VII-VIII (W); Rigaud VI (Des); St. Therese VII (W); food plant: maple.

### THERINA Hubn.

**T. athasaria** Walk. Meach Lake VI (Y); food plant: oak.

**T. endropiaria** G. & R. Levis (Fy); St. Hilaire VII (C); Montreal VI (W); Shawbridge VI (W); food plant: oak.

**T. fiscellaria** Guen. East Bolton VIII (W); St. Hilaire VIII (W); Montreal VIII (W); St. Therese VIII (W); food plants: hemlock, spruce.

**T. pellucidaria** G. & R. Montreal VI (W); food plant: pine.

### METROCAMPA Latr.

**M. perlata** Guen. Metis VIII (W); Rimouski VIII (Gb); Cap a l'Aigle VIII (W); Quebec (B); Windsor Mills VII (R); St. Hilaire VII (W); Montreal VI-VII (W); St. Therese (Mi); Newaygo VII (So); food plants: elm, willow, poplar, birch, oak, beech.

### EUGONOBAPTA Warr.

**E. nivosaria** Guen. Levis (Fy); St. Hilaire VII (W); East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W); St. Margaret VII (W).

### ENNOMOS Tr.

**E. magnarius** Guen. Quebec (B); Cowansville (Fy); Montreal VIII-IX (W); food plants: maple, birch, locust, elm, bass.

**E. subsignarius** Hubn. Levis (Fy); East Bolton VII (W); Montreal VII-VIII (W); St. Margaret VII (W); food plants: bass, elm, maple, poplar, apple.

### XANTHOTYPE Warr.

**X. crocataria** Fabr. Metis VII (W); Ha Ha Bay VII (Sa); Levis (Fy); East Bolton VII (W); Windsor Mills VI (W); St. Hyacinthe (T); St. Hilaire VI (W); Montreal VI-VII (W); food plants: strawberry, currant, mint.

### PLAGODIS Hubn.

**P. altruaria** Pears. St. Hilaire V (W); Montreal V-VI (W); Hudson V (W); food plant: apple.

**P. alcoolaria** Guen. Levis (Fy); St. Hilaire V (W); Montreal V-VI (W).

**P. keutzingi** Grt. Quebec (B); Windsor Mills VI (W); St. Johns VII (C); Montreal (Cd).

**P. phlogosaria** Guen. Cowansville (Fy); St. Hilaire V (W); Montreal IV-VI (W); St. Therese VI (W); Hudson V (W); food plants : wild cherry, birch.

**P. serinaria** H. S. Windsor Mills VI (W); St. Hilaire V (W); Montreal V.-VI (W); Hudson V (So); Lost River V-VI (Gb); food plant: willow.

### HYPERETIS Guen.

**H. amicaria** H. S. Metis VII (W); Levis (Fy); Sherbrooke VI (So); St. Hilaire V (W); East Bolton VII (W); St. Johns VI (C); Montreal V-VI (W); Hudson V (W); Rigaud V (Des); Lost River V (Gb); St. Therese (Mi); St. Margaret VII (W); food plants: oak, beech, birch, alder.

### ANIA Steph.

**A. limbata** Harv. Metis VII (W); Levis (Fy); Sherbrooke VII (So); East Bolton VII (W); Phillipsburg VII (W); St. Hilaire VI (W); Montreal VI-VII (W); St. Margaret VII (W); food plants: maple, elm, hazel, strawberry.

### GONODONTIS Hubn.

**G. duaria** Guen. Metis VII (W); Levis (Fy); Montreal VI (W); Lost River V-VI (Gb); St. Margaret VII (W); Rigaud VII (W); Newaygo VI (So); food plant: oak.

**G. hypochraria** H. S. Metis VII (W); Levis (Fy); Windsor Mills VI (W); East Bolton VII (W); St. Hilaire V-VI (W); St. Johns VI (C); Montreal VI (W); Hudson V (W); Newaygo VI (So); food plant: apple.

**G. obfirmaria** Hubn. Gomin Swamp, near Quebec VI (Fy); Eastman's VI (W); Montreal VI (W); food plants: blueberry, bearberry.

### EUCHLAENA Hubn.

**E. effectaria** Walk. Levis (Fy); Sherbrooke VII (So); St. Hilaire VII (C); St. Hyacinthe (T); St. Johns VII (C); Montreal VII (W); food plants: rose, apple.

**E. johnsonaria** Fitch. East Bolton VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VII (W); St. Margaret VII (W); food plants: cherry, oak, beech.

**E. marginata** Minot. Quebec (B); St. Hilaire VII (W); Montreal VI (W); Rigaud VII (W).

**E. obtusaria** Hubn. Metis VII (W); St. Hyacinthe (T); Montreal VI-VII (W); food plant: impatiens.

**E. pectinaria** D. & S. Levis (Fy); food plants: oak, wild cherry, poplar.

**E. serrata** Dru. Quebec (B); Sillery (Fy); St. Hilaire VII (C); St. Hyacinthe (T); St. Johns VII (C); Montreal VII (W); St. Margaret VII (W); food plants: maple, apple.

**E. vinulentaria** G. & R. Montreal VI (W).

### EUTRAPELA Hubn.

**E. alciphearia** Walk. St. Faustin VI (W); food plants: maple, birch, alder.

### METANEMA Guen.

**M. determinata** Walk. Levis (Fy); East Bolton VII (W); St. Hilaire V (W); St. Johns VII (C); Montreal V and VII (W).

**M. inatomaria** Guen. Metis VII (W); Quebec (B); Cowansville (Fy); East Bolton VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal V-VI-VII (W); Hudson V (W); Rigaud VI (W); food plant : poplar.

**M. quercivoraria** Guen. Montreal VI (W); Shawbridge VI (W); food plants: oak, elm, willow, poplar, bellwort.

### PRIOCYCLA Guen.

**P. armataria** H. S. Quebec (B); East Bolton VII (W); Cowansville (Fy); St. Johns VII (C); Montreal VI (W); food plants: currant, gooseberry, birch, maple, apple.

**P. decoloraria** Hulst. St. Johns VII (C).

### PERO H. S.

**P. honestarius** Walk. St. Fabien VII (C); Quebec (B); Island of Orleans (Fy); East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W); Newaygo VI (So); food plant: maple.

**P. marmoratus** Grossb. St. Johns VII (C).

### CABERODES Guen.

**C. confusaria** Hubn. Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); St. Johns VII (C); Montreal VII (W); Rosemere VII (W); food plants: clover, dandelion.

**C. majoraria** Guen. St. Hilaire V (W); Montreal (B).

### TETRACIS Guen.

**T. crocallata** Guen. Levis (Fy); East Bolton VII (W); St. Johns VI (C); St. Hilaire V-VI (W); Montreal V-VI (W); Lost River V-VI (Gb); Rigaud VI. (W); food plant: sumac.

### SABULODES Guen.

**S. lorata** Grt. Metis VII (W); Levis (Fy); Windsor Mills VI (W); East Bolton VII (W); St. Johns VI (C); St. Hilaire V-VI (W); Montreal V-VI (W); Lost River V-VI (Gb); Rigaud VI (W.); food plants: hemlock, sweet fern.

**S. transversata** Dru. Levis (Fy); Eastern Tps. (Fy); St. Hilaire VIII (W); Montreal VII-IX (W); food plants: maple, apple, currant.

### ABBOTTANA Hulst

**A. clemataria** A. & S. Quebec V (B); Compton (Gosse), St. Hilaire V (W); Montreal V (W); Hudson V (W); Newaygo VI (So); food plants: hickory, oak, elm.

### BREPHOS Ochs.

**B. infans** Moeschl. Montreal IV-V (W); Chelsea IV-V (G); food plant: white birch.

### CALLIZZIA Pack.

**C. amorata** Pack. St. Fabien VII (C); Quebec (Bel.); St. Johns VII (C); East Bolton VII (W); Montreal VI-VII (Ly).

### CALLEDAPTERYX Grt.

**C. dryopterata** Grt. St. Johns VII (C).

## Family LIMACODIDAE

This family contains small moths, with plump hairy bodies, head retracted, antennae of males pictinated, tongue imperfectly developed. The wings are broad and short, thickly scaled, of various shades of brown, often ornamented with green.

The larvae are known as "slug-caterpillars," the feet being mostly missing, and the body is soft and flabby and flat below, while above it is usually ornamented with branching spines.

### EUCLEA Hubn.

**E. delphinii** Bd. Cowansville (Fy); East Bolton VII (W); St. Hilaire VI (C); Montreal VI-VII (W); Rosemere VII (W); food plants: oak, bass, cherry.

### ADONETA Clem.

**A. spinuloides** H. S. St. Hilaire VII (W); Montreal VI-VII (W); food plants: cherry, plum, willow.

### PHOBETRON Hubn.

**P. pithecium** A. & S. St. Hilaire VII (W); Montreal VI (W); food plants: oak, plum.

### LIMACODES Latr.

**L. biguttata** Pack. East Bolton VII (W); Montreal VI (W); Chateauguay VII (W); food plant: oak.

**L. y-inversa** Pack. Metis VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); food plants:hickory, butternut, beech.

### LITHACODES Pack.

**L. fasciola** H. S. Cowansville (Fy); St. Hilaire VII (C); Montreal VI-VII (W); food plants: apple, blueberry, bass, oak, hickory, plum, cherry.

### PACKARDIA G. & R.

**P. elegans** Pack. St. Hilaire VII (W); St. Johns VII (C); food plants: birch, cherry.

**P. geminata** Pack. Cowansville (Fy); East Bolton VII (W); St. Hilaire VII (C); St. Johns (C) food plants: hickory, oak, cherry, birch.

### TORTRICIDIA Pack.

**T. flexuosa** Grt. Levis (Fy); St. Hilaire V-VI (C); Montreal VI (W); food plants: oak, birch, wild cherry, apple.

**T. testacea** Pack. Montreal VI-VII (W); food plants: birch, cherry, oak.

## Family THYRIDAE

A family of small moths, with short and angulated wings with semi-transparent spots, the body is stoutly built, the antennae filiform but thickest in the middle.

### THYRIS Ill.

**T. maculata** Harr. St. Hilaire VII (Ly); Montreal VII (Gb).

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## Family COSSIDAE

A family of large moths, with small heads and short antennae and palpi, tongue wanting. Body long and conical usually projecting half its length beyond hind wings. Wings thinly scaled, the males often very much smaller than the females, the latter being clumsy fliers. The larvae are borers in forest and shade trees, at first feeding under the bark and later boring into the heartwood.

### COSSUS Fabr.

**C. centerensis** Lintn. Cowansville (Fy); Montreal VII (C); food plant: poplar trunks.

### PRIONOXYSTUS Grt.

**P. mcmurtrei** Guer.-Men. Montreal VI (W); food plant: oak trunks.

**P. robiniae** Peck. Cowansville (Fy); St. Hilaire VI (W); Montreal VI (W); Chateauguay VII (J); food plants: trunks of locust, poplar, elm and oak trees.

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## Family SESIIDAE

A family of wasp-like moths, with straight narrow forewings, the hind wings usually more or less transparent—the hind legs long and often brightly coloured, antennae spindle shaped, often pictinated in the male. The larvae are all borers in the stems or roots of living plants.

### MELITTIA Hubn.

**M. satyriniformis** Hubn. Eastern Tps. (Fy); food plant: squash stems.

### ALCATHOE Hy. Edw.

**A. caudata** Harr. Montreal VII (C); food plant: clematis roots.

### PODOSESIA Moeschl.

**P. syringae** Harr. Montreal VI (W); food plants: lilac, mountain ash, pear shoots.

### MEMYTHRUS Newm.

**M. tricinctus** Harr. Como VI (Fy); food plant: stems of willow and poplar.

### AEGERIA Fabr.

**AE. tibialis** Harr. Montreal (B); food plant: willow and poplar trunks.

### BEMBECIA Hubn.

**B. marginata** Harr. Como (Fy); St. Margaret VIII (C); Meach Lake VIII (Y); food plant: blackberry roots.

### PARHARMONIA Neum.

**P. pini** Kell. Hudson VI (S); food plant: trunks of pine and spruce.

### SANNINOIDEA Beut.

**S. exitiosa** Say. Levis VIII (Fy); Food plants: wild cherry, willow stems.

### ALBUNA Hy. Edw.

**A. pyramidalis** Walk. Montreal (B).

### SESIA Fabr.

**S. acerni** Clem. Sherbrooke (Fy); St. Johns VII (C); Montreal VI (W); Rosemere VI-VII (W); food plant: maple trunks.

**S. pictipes** G. & R. Levis VII (Fy); food plants: plum, cherry.

**S. tipuliformis** Clerck. Levis (Fy); Montreal VI (W); food plant: currant stems.

## Family PYRALIDAE

This family contains moths of small size, with long narrow forewings and ample hindwings; long slender body and legs. Antennae not pectinate. Palpi sometimes long, extending in front like a beak. Larvae slender with a few hairs, 8 pairs of legs. Pupation in a cocoon above ground. Moths generally fly at dusk.

### DESMIA West.

**D. funeralis** Hubn. East Bolton VII (W); St. Johns VII (C); Montreal VI-VIII (W); St. Margaret VII (W); food plant: grape.

### BLEPHAROMASTIX Led.

**B. nymphulalis** Ha. St. Johns VII (C).

**B. stenialis** Guen. Levis (Fy).

### PANTAGRAPHA Led.

**P. limata** G. & R. Cowansville (Fy); East Bolton VII (W); St. Johns VII (C); Montreal VI-VII (W); Rosemere VII (W); food plant: bass.

### DIAPHANIA Hubn.

**D. hyalinata** Linn. Montreal VIII-IX (W).

**D. quadristigmalis** Guen. Montreal VII (W); Food plant: privet.

### METREA Grote.

**M. ostreonalis** Grt. Cowansville (Fy); Lost River V-VI (Gb); Meach Lake VII (Y).

### EVERGESTIS Hubn.

**E. straminalis** Hubn. Metis VII-VIII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Phillipsburg VI (W); Montreal VI-VII (W); Rosemere VII (W).

### NOMOPHILA Hubn.

**N. noctuella** D. & S. Metis VIII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VIII (W); Montreal VI-VII-IX (W); St. Faustin VI (W).

### LOXOSTEGE Hubn.

**L. chortalis** Grt. Levis (Fy); St. Hilaire VI (W); Montreal V-VI (W).

**L. commixtalis** Walk. Montreal VI (W).

## PERISPASTA Zell.

**P. caeculalis** Zell. Montreal VIII (W).

## PHLYCTAENIA Hubn.

**P. acutella** Walk. St. Johns VII (C).

**P. ferrugalis** Hubn. Montreal VI (W).

**P. helvalis** Walk. Montreal VII (W); food plant: willow.

**P. terrealis** Tr. Levis (Fy); Montreal VI-VIII (W); Rigaud VII (W).

**P. tertialis** Guen. Levis (Fy); East Bolton VII (W); St. Hilaire (C); Montreal VI-VII (W); Montfort VI (W).

## PYRAUSTA Schrank

**P. acrionalis** Walk. Levis (Fy).

**P. aeglealis** Walk. St. Johns VII (C); food plant: poke-berry.

**P. fumalis** Guen. Levis (Fy); St. Hilare VII (W); St. Johns VII (C); Montreal VII-VIII (W).

**P. fumoferalis** Hulst. St. Hilaire VII (C); Montreal VII (W).

**P. funebris** Strom. Levis (Fy); Eastmans VI (W); Montreal VI (W).

**P. marginalis** Walk. Levis (Fy); St. Hilaire V (W); Montreal V-VI (W).

**P. nicalis** Grt. St. Hilaire VII (C).

**P. illibalis** Hubn. Levis (Fy); Phillipsburg VI (W); St. Hilaire V (W); Montreal V-VI (W); Lost River V-VI (Gb).

**P. insequalis** Guen. Montreal VI (W); Rosemere VII (W); food plant: thistle.

**P. ochosalis** Dyar. Metis VIII (W); St. Fabien VIII (C); Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VII (W); Rigaud VII (W).

**P. orphisalis** Walk. Levis (Fy); Montreal VII (W); Rigaud VII (W); food plant: mint.

**P. penitalis** Grt. East Bolton VII (W); St. Hilaire VII (W); Montreal VII (W); food plant cat tails.

**P. pextextalis** Led. Levis (Fy); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W).

**P. phoenicealis** Hubn. St. Hilaire VII (W); Phillipsburg VI (W); Montreal VI-VII (W); Rigaud VII (W); St. Margaret VII (W).

**P. submedialis** Grt. Montreal V-VIII (W); Rigaud VII (W).

**P. theseusalis** Walk. East Bolton VII (W); St. Johns VII (C); St. Hilaire VII (W); Montreal VII (W); Rosemere VII (W); food plant: ferns, rolling up fronds into round balls.

**P. unifascialis** Pack. Levis (Fy); Rigaud VI (W); Oka VI (W).

### NYMPHULA Schrank

**N. badiusalis** Walk. Levis (Fy); St. Johns VII (C); Lacolle VII (M) Montreal VII-VIII (W).

**N. icciusalis** Walk. Levis (Fy); East Bolton VII (W); St. Hilaire VI (W); Montreal VI (W); St. Martin Jn. VI (W); St. Margaret VII (W).

**N. maculalis** Clem. Rosemere VII; St. Margaret VII (W); food plant: water lilies.

**N. obscuralis** Grt. East Bolton VII (W); St. Johns VII (C); Montreal VIII-IX (W); food plant: eel-grass (vallisneria).

**N. obliteralis** Walk. Ottawa district (F); food plant: duckweed.

### ELOPHILA Hubn.

**E. fulicalis** Clem. St. Johns VII (C); St. Hilaire VII (C); Montreal VII (W); Rigaud VII (W); Rosemere VII (W).

**E. magnificalis** Hubn. Montreal VII-VIII (W); Rigaud VII (W).

### GESHNA Dyar

**G. primordialis** Dyar. Quebec (Hm).

### DIATHRAUSTA Led.

**D. reconditalis** Walk. Metis VIII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W).

### SCOPARIA Haw.

**S. basalis** Walk. Kamouraska VII (W); St. Hilaire VIII (C); East Bolton VII (W); St. Johns VI-VII (C); Montreal V-VII (W).

**S. centuriella** D & S. Levis (Fy); St. Hilaire VIII (C); East Bolton VII (W); Montreal VI VII (W).

**S. cinereomedia** Dyar. St. Hilaire VII (C).

### AGLOSSA Latr.

**A. cuprealis** Hubn. Montreal VII (W).

### PYRALIS Linn.

**P. farinalis** Linn. Metis VIII (W); Levis (Fy); St. Johns VI-IX (C); Montreal VI-VII (W); food plants: stored grains, etc.

### HYPSOPYGIA Hubn.

**H. costalis** Fabr. Cowansville (Fy); East Bolton VII (W); St. Hilaire VI (C); St. Johns VI (C); Montreal VI-VII (W); Rigaud VII (W); food plant: clover hay.

### HERCULIA Walk.

**H. himonialis** Zell. St. Hilaire VII (C).

**H. intermedialis** Walk. St. Hilaire VII (C); Montreal VII (W).

**H. olinalis** Guen. Bergerville (Fy); St. Hilaire VII (C); Rigaud VII (W).

### GALASA Walk.

**G. rubidana** Walk. East Bolton VII (W).

### SCHOENOBIUS Dup.

**S. forficellus** Thumb. Levis (Fy).

**S. melinellus** Clem. Levis (Fy); St. Hilaire VIII (W); Montreal VII (W).

### RAPHIPTERA Hamps.

**R. minimella** Rob. Gomin Swamp, near Quebec (Fy).

### CRAMBUS Fabr.

**C. agitatellus** Clem. East Bolton VII (W); St. Hilaire VII (C); Montreal VI-VII (W); Meach Lake VII (Y).

**C. albellus** Clem. St. Hilaire VII (C); St. Johns VII (C); Rigaud VII (W); Chelsea VII (G).

**C. alboclavellus** Zell. Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Montreal VI-VII (W); Meach Lake (Y).

**C. bidens** Zell. Levis (Fy); Meach Lake (Y).

**C. caliginosellus** Clem. Levis (Fy); St. Hilaire VII (W)

**C. elegans** Clem. Gomin Swamp, near Quebec (Fy); St. Hilaire VIII (C); Rigaud VII (W)

**C. girardellus** Clem. Levis (Fy); St. Hilaire VII (C); St. Johns VII (C); Montreal VII (W) Rigaud VII (W).

**C. hamellus** Thumb. Kamouraska VIII (W).

**C. hortuellus** Hubn. Levis (Fy); St. Hilaire VII (W); Montreal VII (W).

**C. labradoriensis** Chris. Gomin Swamp, near Quebec, VI (W); Lost River V-VI (Gb).

**C. laqueatellus** Clem. Metis VIII (W); St. Hilaire VII (C); Montreal VIII-IX (W); Chelsea V-VI (G).

**C. leachellus** Zinck. Levis (Fy); St. Hilaire VIII (C); Rigaud VII (W); Hull VI (G).

**C. luctuellus** H. S. Gomin Swamp, near Quebec (Fy).

**C. luteolellus** Clem. St. Fabien VII (C); Montreal VI (W).

**C. mutabilis** Clem. East Bolton VII (W); St. Hilaire VI-VII (W); St. Johns VII (C); Montreal VII (W).

**C. perlellus** Scop. Metis VIII (W); Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); St. Johns VII (C); Montreal VI-VII (W); Rigaud VII-VIII (W).

**C. praefectellus** Zinck. Aylmer VI (G).

**C. ruricolellus** Zell. Rimouski VIII (Gb); Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VII-VIII (W); Rigaud VII (W).

**C. trisectus** Walk. St. Hilaire VII (W); Montreal VI-VII (W).

**C. turbatellus** Walk. Levis (Fy); Montreal VII (C); Meach Lake (Y).

**C. unistriatellus** Pack. Metis VII (W); Levis (Fy); St. Hilaire VII (W); Montreal IX (C).

**C. vulvivagellus** Clem. St. Hilaire IX (C); Montreal VIII-IX (W).

**C. zeellus** Fern. Montreal VII (W); Aylmer VII (G).

### THAUMATOPSIS Morr.

**T. pexella** Zell. Montreal VII (W).

### ARGYRIA Hubn.

**A. auratella** Clem. St. Johns VIII (C); Montreal VII (W).
**A. nivalis** Dru. St. Johns VII (C); St. Hilaire VI (W); Montreal VI-VII (W); Hull VII (G).

### CHALCOELA Zell.

**C. principialis** Walk. Montreal VII (W).

### GALLERIA Fabr.

**G. mellonella** Linn. Levis (Fy); St. Hilaire VIII (C); St. Johns VIII (C); Montreal VIII (W) The "bee-moth," larva infests hives, eating the wax.

### PARALIPSA Butl.

**P. terrenella** Zell. St. Johns VII (C); Montreal VII (W).

### BENTA Walk.

**B. asperatella** Clem. Montreal VI (W); food plant: locust.

### TETRALOPHA Zell.

**T. melitella** Zell. Rigaud VII (C).

### ACROBASIS Zell.

**A. betulella** Hulst. St. Hilaire VII (C); St. Johns VII (C); food plant: birch.

**A. comptoniella** Hulst. Rimouski VIII (Gb); St. Johns VII (C); St. Hilaire VII (C); food plant: sweet fern.

### MINEOLA Hulst

**M. amplexella** Rag. Montreal VII (W).

**M. indiginella** Zell. Levis (Fy); St. Hilaire VI (W); Montreal VI (W); food plants: apple, plum, cherry.

**M. juglandis** LeBaron. St. Hilaire VII (C); food plant: hickory.

**M. tricolorella** Grt. St. Hilaire VII (W); Montreal VII (W).

### DIORYCTRIA Zell.

**D. abietella** Zell. Montreal VII (C); food plants: pine, spruce.

### PINIPESTIS Grt.

**P. zimmermanni** Grt. Levis (Fy); food plant; pine.

### GLYPTOCERA Rag.

**G. consobrinella** Zell. St. Hilaire VI (C).

### NEPHOPTERYX Hubn.

**N. basilaris** Zell. St. Johns VII (C).

**N. ovalis** Pack. St. Hilaire VII (C).

### TLASCALA Hulst

**T. reductella** Walk. St. Hilaire VII (W); Montreal VI-VII (W); food plant: locust.

### MEROPTERA Grt.

**M. pravella** Grt. Levis (Fy); St. Hilaire VI-VII (C); Montreal VIII-IX (W).

**M. unicolorella** Hulst. St. Johns VII (C); St. Hilaire VII (C).

### SALEBRIA Zell.

**S. contatella** Grt. Levis (Fy); St. Johns VII (C); Montreal VII (W); food plant: locust.

**S. laevigatella** Hulst. Montreal VI (W).

### LAODAMIA Rag.

**L. fusca** Haw. St. Hilaire VIII (W); Montreal VII-VIII (W); Rigaud VII (W); food plant: blueberry.

### ZOPHODIA Hubn.

**E. grossulariae** Riley. St. Hilaire VII (C); food plant: gooseberries.

### EUZOPHERA Zell.

**E. ochrifrontella** Zell. St. Hilaire VII (C).

### VITULA Rag.

**V. edmansii** Pack. St. Hilaire VII (C).

### CANARSIA Hulst

**C. ulmiarrosorella** Clem. Levis (Fy); St. Hilaire VII (C); Montreal VII (W); food plant: elm.

### HULSTEA Rag.

**H. undulatella** Clem. Montreal VII (W).

### HOMOEOSOMA Curt.

**H. impressale** Hulst. Montreal VIII (W).

**H. stypticellum** Grt. St. Hilaire VII (C); Montreal VI (W).

**H. uncanale** Hulst. St. Hilaire (C).

### EPHESTIA Guen.

**E. cautella** Walk. Levis (Fy); Montreal VI (W); food: stored foodstuffs.

**E. elutella** Hubn. Levis (Fy); Montreal IX-X (W); food: cocoa beans.

**E. kuehniella** Zell. Montreal VI (W); food: flour.

### PLODIA Guen.

**P. interpunctella** Hubn. Montreal— indoors throughout year. Food: stored foodstuffs.

### PEORIA Rag.

**P. approximella** Walk. East Bolton VII (W); St. Hilaire VII (C); Montreal VII (W).

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## Family PTEROPHORIDAE

The moths comprised in this family are commonly known as " plume-moths " because the wings are split into 2 to 5 feathers or plumes. They are of various shades of brown or whitish, and are all small, frail-looking creatures with very long bodies and legs. The caterpillars are hairy resembling the young stages of the " woolly bears."

### OXYPTILUS Zell.

**O. delawaricus** Zell. East Bolton VII (W); Montreal VII (W).

**O. periscelidactylus** Fitch. Levis (Fy); Montreal VI (W); food plant: grape.

**O. tenuidactylus** Fitch. East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); St. Margaret VII (W); food plants: raspberry, blackberry.

### PLATYPTILIA Hubn.

**P. carduidactyla** Riley. Levis (Fy); St. Hilaire VIII (W); Montreal VIII (W); food plant: thistle.

**P. edwardsii** Fish. Montreal V (W); St. Hilaire V (W).

**P. marginidactyla** Fitch. Levis (Fy); St. Hilaire VII (W); St. Johns VII (C); Montreal VII (W); Rigaud VII (W); food plant: yarrow.

**P. tesseradactyla** Linn. St. Hilaire VII (W); Montreal VII-VIII (W); Rosemere VIII (W); food plant: gnaphalium.

### PTEROPHORUS Geoff.

**P. elliottii** Fern. Montreal VII (W); food plant: epilobium.

**P. eupatorii** Fern. St. Johns VII (C); Montreal VII (W); food plant: Joe Pye weed.

**P. homodactylus** Walk. East Bolton VII (W); St. Hilaire VII (W); St. Johns VI-VII (C); Montreal VII-VIII (W); Rigaud VII (W); food plant: golden rod.

**P. kellicottii** Fish. Meach Lake (Y); food plant: golden rod.

**P. monodactylus** Linn. Montreal VIII-X (W); food plants: lambs-quarter, morning-glory.

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## Family TORTRICIDAE

These are small moths with broad square forewings, the costal edge of which is frequently much curved at the base, giving rise to the popular name of bell-moths. The forewings are often beautifully marked with quiet shades of browns, greys, black and white, while the hindwings are without markings, the colour being same as the body.

Some of the caterpillars are leaf rollers, some feed in seed pods and fruits, others again bore in stems and roots.

### CYMOLOMIA Led. (Exartema Clem.)

**C. exoleta** Zell. Montreal VI-VII (W); food plant: gooseberry.

**C. fasciatana** Clem. Metis VII (W); Levis (Fy); St. Hilaire VI (C); East Bolton VII (W); Montreal VI (W); food plant: dock.

**C. merrickana** Kearf. St. Hilaire VII (C).

**C. myricana** Kearf. St. Hilaire VII (W).

**C. olivaceana** Fern. Meach Lake (Y).

**C. permundana** Clem. St. Hilaire VII (W); Montreal VII (W); food plants: rose, spirea.

**C. punctana** Wlsm. St. Hilaire VII (C); St. Johns VII (C); Montreal VII-VIII (W).

**C. versicolorana** Clem. St. Johns VII (C); Montreal VI (W); Rigaud VI (C); Meach Lake (Y); food plant: oak.

### OLETHREUTES Hubn.

**O. agilana** Clem. Montreal VI (W); food plant: impatiens.

**O. bipartitana** Clem. St. Fabien VII (C); Montreal VI (C).

**O. campestrana** Zell. East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); Rigaud VI (W); Meach Lake (Y); food plant: rubus.

**O. capreana** Hubn. Montreal VI-VII (W); Rigaud VII (C); Meach Lake (Y); food plant: willow.

**O. constellatana** Zell. St. Hilaire VII (W); Montreal VII (W).

**O. corruscana** Clem. St. Hilaire VI (C).

**O. chionosema** Zell. Montreal (C); food plant: apple.

**O. dealbana** Walk. St. Hilaire VI (C); St. Johns VI (C); Montreal VII (C).

**O. fuscalbana** Zell. St. Margaret VIII (C).

**O. hemidesma** Zell. East Bolton VII (W); St. Hilaire VII (W); Montreal VII (W); Rigaud VII (W); food plant: spirea tomentosa.

**O. impudens** Wlsn. Montreal VII (W).

**O. instrutana** Clem. St. Hilaire VII (C); St. Johns VII (C); Montreal VII (W); Meach Lake VII (Y).

**O. nimbatana** Clem. Montreal VII (W); Meach Lake VII (Y); food plant: rose.

**O. nubilana** Clem. Montreal IX (W).

**O. removana** Kearf. Montreal VI (C).

**O. separatana** Kearf. Montreal VI (C).

### EUCOSMA Hubn.

**E. confluana** Kearf. Montreal VII (W).

**E. dorsisignatana** Clem. Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VII-IX (W); food plant: golden-rod roots.

**E. madderana** Kearf. Meach Lake VI (Y).

**E. medioviridiana** Kearf. Meach Lake (Y).

**E. obfuscana** Riley. Montreal VI (C); Meach Lake (Y).

**E. otiosana** Clem. St. Johns VII (C); Montreal VI (W); food plant: beggar's ticks.

**E. scudderiana** Clem. Levis (Fy); East Bolton VII (W); St. Hilaire VII (C); Montreal VI (W); food plant: golden rod stems.

**E. solandriana** Hubn. Montreal VI (W).

**E. solicitana** Walk. Montreal VI (W).

**E. strenuana** Walk. St. Hilaire VII (C).

**E. tomonana** Kearf. Montreal VIII (W).

**E. transmissana** Walk. St. Hilaire VII (W); St. Johns VII (C); Montreal VII (W); St. Margaret VII (W); Meach Lake (Y).

**E. yaracana** Kearf. Montreal V (W).

### CYDIA Hubn. (Semasia Steph.)

**C. formosana** Clem. Levis (Fy); Montreal VI (W).

**C. nigricana** Steph. Throughout province VII (F); food plant: peas.

**C. ochroterminana** Kearf. Montreal VIII (W).

**C. radiatana** Wlsn. Montreal VI (W).

**C. striatana** Clem. Rimouski VIII (Gb); St. Hilaire VI-VII (W); St. Johns VI (C); Montreal VII (W); Meach Lake (Y).

**C. signatana** Clem. Quebec (Fy).

**C. timidella** Clem. Montreal VI (C); food plant: oak.

**C. umbristriatana** Kearf. Montreal VI (W).

### PROTEOPTERYX Wlsn.

**P. costomaculana** Clem. Montreal IX (W).

**P. mormonana** Kearf. Meach Lake VII-VIII (Y).

### PROTEOTERAS Riley

**P. aesculanum** Riley. Meach Lake (Y); food plants: horse chestnut, stems of leaves.

**P. moffatiana** Fern. Montreal VI (W); food plants: maple, stems of leaves.

### ENARMONIA Hubn. (Epinotia)

**E. americana** Walsm. Meach Lake VI (Y).

**E. cockleana** Kearf. Meach Lake (Y).

**E. fasciolana** Clem. Meach Lake (Y).

**E. felicitana** Kearf. Montreal VII (W).

**E. fletcherana** Kearf. Meach Lake VI-VII (Y).

**E. fortunana** Kearf. Meach Lake VI-VII (Y).

**E. gallaesaliciana** Riley. Montreal VI (W).

**E. incarnana** Haw. St. Hilaire VII (C).

**E. lagopana** Walsm. St. Hilaire. V (W).

**E. pinicolana** Zell. Montreal V-VI (W); St. Hilaire V (W).

**E. pseudotsugana** Kearf. St. Margaret VII (W).

**E. ratzburgiana** Saxl. St. Hilaire VII (W); food plant: spruce.

**E. watchungana** Kerf. Aylmer VI (Y).

**E. youngana** Kearf. Meach Lake (Y).

### ANCYLIS Hubn.

**A. angulifasciana** Zell. Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VI (W); Oka VI (W).

**A. apicana** Walk. Eastmans VI (W); Meach Lake (Y).

**A. burgessiana** Zell. Eastmans VI (W); Montreal VI (W).

**A. comptana** Froh. Montreal VII (W); Meach Lake (Y); food plant: strawberry.

**A. dubiana** Clem. Montreal VI (C).

**A. murtfeldtiana** Riley. Piedmont VI (W).

**A. nubeculana** Clem. Levis (Fy); St. Hilaire VI-VII (W); Montreal VI (W); St. Faustin VI (W); Meach Lake (Y).

**A. semiovana** Zell. Eastmans VI (W); Montreal VI (W).

**A. subaequana** Zell. Levis (Fy); Montreal VI (C).

### ANCYLOPERA Steph.

**A. diminutana** Kearf. Montreal VI (W); food plant: willow.

**A. mediofasciana** Clem. Eastmans VI (W); Montreal VII (W).

### LASPEYRESIA Hubn.

**L. caryana** Fitch. Montreal VII (W); food plant: hickory hulls.

**L. interstinctana** Clem. Montreal VI (W).

**L. prunivora** Walsh. Montreal VI (W); food plant: hawthorn.

### HEMIMENE Hubn.

**H. simulana** Clem. Montreal VI (W).

### MELLISOPUS Riley

**M. latiferreanus** Walsm. St. Hilaire VI (C); Montreal (W); food plant: acorns.

### CARPOCAPSA Tr.

**C. pomonella** Linn. Throughout all portions of Province where apples grow. The well-known "Codling Moth."

### TMETOCERA Led.

**T. ocellana** Schiff. Montreal VI (W); St. Hilaire VII (W); food plant: buds of apple.

### ACLERIS Hubn.

**A. albilineana** Kearf. Meach Lake IX and IV, hibernated (Y).

**A. angusana** Fern. Meach Lake (Y).

**A. celiana** Robs. Levis (Fy); Montreal IV (W).

**A. cervinana** Fern. Montreal IV (W); Meach Lake (Y).

**A. diminuatana** Kearf. St. Hilaire VII (W).

**A. ferrugana** Schif. Levis (Fy); Montreal VI (W); food plant: birch.

**A. heindelana** Fern. Montreal VI (C).

**A. minuta** Rob. Levis (Fy); Montreal (S); Meach Lake (Y); food plant: apple.

**A. nigrolinea** Rob. St. Hilaire IX (C); Montreal IX-X (W).

**A. niveisillana** Walsh. St. Hilaire V hibernated (W); Montreal IX-X and IV-V hibernated (W).

**A. oxycoccana** Pack. East Bolton VII (W).

**A. schalleriana** Linn. St. Margaret VIII (C).

**A. subnivana** Walk. Levis (Fy); Montreal IX-X (W).

**A. trisignana** Robs. Montreal IX-XI and III-IV hibernated (W); food plant: birch.

**A. variana** Fern. Meach Lake (Y); food plant: spruce.

### EPAGOGE Hubn.

**E. lycopodiana** Kearf. Meach Lake VII (Y); food plant: club moss.

**E. sulphurana** Linn. East Bolton VII (W); St. Hilaire VII-IX (W); Montreal VI-IX (W); St. Margaret VIII (C); Meach Lake (Y); food plants: willow, grape, strawberry.

### CENOPIS Hubn.

**C. pettitana** Rob. St. Hilaire VII (C); Montreal VI-VII (W); Rosemere VII (W); Chelsea VII (G); food plant: maple.

**C. reticulatana** Clem. Levis (Fy); East Bolton VII (W); Windsor Mills (R); Montreal VII (W); Rigaud VII (W); Meach Lake (Y); food plants: oak, rose, maple.

### COELOSTATHMA Clem.

**C. discopunctana** Clem. St. Hilaire VII (C); food plant: golden rod.

## SPARGANOTHIS Hubn.

**S. irrorea** Rob. St. Hilaire VII (W); St. Johns VII (C).

**S. puritana** Rob. St. Hilaire VII (C).

**S. violaceana** Robs. Eastmans VI (W); Montreal VII (W).

## ARCHIPS Hubn.

**A. afflictana** Walk. Levis (Fy); Eastmans VI (W); St. Hilaire VI (W); Montreal VI (W); Hudson V (W); food plant: spruce.

**A. argyrospila** Walk. Levis (Fy); St. Hilaire VII (C); Montreal VII (W).

**A. cerasivorana** Fitch. East Bolton VII (W); Cowansville (Fy); Windsor Mills VII (W); St. Hilaire VII (W); Montreal VII (W); Rigaud VII (W); food plant: choke cherry.

**A. clemensiana** Fern. Montreal VI-VII (W); Rosemere VII (W).

**A. fervidana** Clem. Levis (Fy); Windsor Mills VI (R); Montreal VI-VII (W); Calumet VII (W); Chelsea VII (G); food plant: oak.

**A. fractivittala** Clem. Levis (Fy); Montreal VI (C); Chelsea VI (G); food plant: bass.

**A. infumatana** Zell. Montreal VII (W); food plant: hickory.

**A. melaleucana** Walk. Levis (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VI (W); Rigaud VII (W); food plant: trillium.

**A. parallela** Robs. St. Hilaire VII (C); Montreal VII (W); Chateauguay VII (W).

**A. persicana** Fitch. Metis VII (W); St. Fabien VII (C); Levis (Fy); St. Hilaire VII (C); East Bolton VII (W); Windsor Mills VII (R); Montreal VI-VII (W); food plant: strawberry.

**A. purpurana** Clem. Levis (Fy); Montreal VII (W); food plants: oak, hickory, locust, blueberry.

**A. rosaceana** Harr. East Bolton VII (W); St. Johns VII (C); St. Hilaire VII (W); Montreal VII-VIII (W); Rigaud VII (W); Chelsea VII (G); food plants: rose, apple, plum.

**A. rosana** Linn. Montreal VII (W); food plants: rose, currant, maple.

**A. semiferana** Walk. Levis (Fy); food plant: polygonum.

**A. virescana** Clem. Montreal VII (W); Rosemere VII (W).

## PLATYNOTA Clem.

**P. flavedana** Clem. Montreal VI (W).

**P. idaeusalis** Walk (sentana Clem.) St. Hilaire VII (C).

## PANDEMIS Hubn.

**P. canadana** Kearf. St. Hilaire VII (C); St. Johns VII (C).

**P. limitata** Rob. St. Johns VII (C); Montreal VII (C); food plants: oak, birch, rose.

### TORTRIX Linn.

**T. albicomana** Clem. Island of Orleans (Fy); St. Hilaire VI-VII (W); Windsor Mills VII (R); Montreal VI-VII (W); Rigaud VII (W); food plants: oak, rose, blueberry.

**T. alleniana** Fern. Levis (Fy); Montreal VII (W); St. Margaret VII (W).

**T. argentana** Clerck. Island of Orleans (Fy).

**T. conflictana** Walk. Levis (Fy); St. Johns VII (C); Montreal VI-VII (W).

**T. fumiferana** Clem. Quebec VII (C); Windsor Mills VII (W); East Bolton VII (W); St. Hilaire VII (W); Montreal VII (W); Rosemere VII (W); Baskatong VII (G); food plant: spruce.

**T. quercifoliana** Fitch. East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); Rosemere VII (W); Rigaud VII (W); St. Margaret VII (W); food plant: oak.

### EULIA Hubn.

**E. alisellana** Robs. Montreal VII (W).

**E. juglandana** Fabr. St. Hilaire VI-VII (C); Montreal VII (W); food plant: hickory.

**E. ministrana** Linn. Levis (Fy); Montreal VI (W); foot plant: hazel.

**E. pinatubana** Kearf. St. Hilaire V (C); Montreal VI (W); food plant: pine.

**E. quadrifasciana** Fern. Chelsea VI (F).

**E. triferana** Walk. Levis (Fy); Montreal V-VI (W); food plant: dog bane, blueberry.

**E. velutinana** Walk. Montreal VIII (W); foot plant: golden rod.

### AMORBIA Clem.

**A. humerosana** Clem. St. Johns VIII (C); Montreal VIII-IX (W); food plants: poison ivy, maple, pine.

### PHALONIA Hubn.

**P. biscana** Kearf. St. Hilaire VIII-IX (W).

**P. dorsimaculana** Rob. Montreal VI-VII (W).

**P. ednana** Kearf. St. Hilaire VII (C).

**P. straminoides** Grt. Montreal VI-VII (W); Rigaud VII (C); food plant: bass.

**P. vitelliana** Zell. St. Fabien VII (C); East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); Meach Lake (Y).

**P. winniana** Kearf. Eastmans VI (W); Montreal VI (W).

### HYSTEROSIA Steph.

**H. baracana** Bsk. St. Johns VII (C); St. Hilaire VI (C).

**H. inopiana** Haw. Montreal VIII (W.)

**H. terminana** Busck. St. Johns VII (C).

**H. tiscana** Kearf. St. Hilaire VII (W).

### CARPOSINA H. S.

**C. crescentella** Wlsn. Montreal V (W); Meach Lake (Y).

**C. fernaldana** Busck. Montreal VII (W).

**C. ottawana** Kearf. Meach Lake VI (Y).

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## Family YPONOMEUTIDAE

A family of very small, but beautifully ornamented moths, with long narrow wings and long fringes, especially the hind pair.

The larvae of many species either bore into the pith or make mines in the leaves.

### PLUTELLA Schrank

**P. maculipennis** Curt. Montreal IX (W); food plant: cabbage.

### CHOREUTIS Hubn.

**C. carduiella** Kearf. Montreal VII (W).

**C. leucobasis** Fern. Meach Lake (Y).

**C. onustana** Kearf. Eastmans VI (W).

### ORCHEMIA Guen.

**O. diana** Hubn. Montreal VII (C); Meach Lake (Y).

### SIMIAETHIS

**S. fabriciana** Linn. Montreal VIII (W).

### ARGYRESTHIA Hubn.

**A. austerella** Zell. Montreal VII (W).

**A. belangerella** Chamb. Quebec (Bel).

**A. conjugella** Zell. Montreal VII (W).

**A. goedertella** Linn. Quebec (Belanger); Montreal VIII (W); food plant: alder.

**A. oreasella** Clem. (=andereggiella). Montreal VI-IX (W); Meach Lake (Y); food plants: apple and hazel buds.

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## Family GELECHIIDAE

A large family of very small moths, with peculiar shaped hindwings, the larvae feed in seeds, nuts and roots, sometimes in webbed up beds.

### METZNERIA Zell.

**M. lappella** Linn. Levis (Fy); Montreal VI-VII (W); Chelsea VII (G); food plant: seeds of burdock.

### SITOTROGA Hein.

**S. cerealella** Oliv. Montreal VI (W); food plants: stored wheat and corn.

### TELPHUSA Chamb.

**T. belangerella** Chamb. Quebec (Bel); food plant: alder.

**T. longifasciella** Clem. Montreal IV-V (W); Meach Lake IV (Y).

### ARISTOTELIA Hubn.

**A. fungivorella** Clem. Levis (Fy); food plant: willow.

**A. roseosuffusella** Clem. Montreal VII (W); Meach Lake (Y).

### RECURVARIA Haw.

**R. coniferella** Kearf. Ottawa district VI (G); food plant: pine.

**R. gibsonella** Kearf. St. Hilaire VII (W); Hull VI-VII (G); food plant: cedar.

**R. quercivorella** Cham. Eastmans VI (W); food plant: oak.

### GNORIMOSCHEMA Bsk.

**G. gallae-asteriella** Kell. Montreal VII (W); food plant: galls on aster.

**G. gallae-diplopappi** Fyles. Levis VIII (Fy); Montreal VIII-IX (W); food plant: aster.

**G. septentrionella** Fyles. North Wakefield. (Miss Fyles).

### ANACAMPSIS Curt.

**A. agrimoniella** Clem. East Bolton VII (W); Montreal VII (W); food plant: agrimony.

### GELECHIA Hubn.

**G. bicostomaculella** Chamb. Meach Lake (Y).

**G. gilvomaculella** Clem. Montreal IX (W); food plant: oak.

**G. maculimarginella** Cham. Rigaud VII (W); food plant: oak.

**G. nigrimaculella** Busck. Montreal IX (W).

**G. ornatifimbriella** Clem. Montreal VI-VII (W).

### TRICHOTAPHE Clem.

**T. alacella** Clem. Montreal VII (C); food plant: aster.

**T. flavocostella** Clem. St. Hilaire VII (C); Montreal VII (W); food plant: aster.

**T. juncidella** Clem. Montreal VII (W); food plant: aster.

**T. levisella** Fyles. Levis (Fy); food plant: aster macrophyllus.

**T. purpureofusca** Wlsn. Levis (Fy); St. Hilaire VII (C).

### ENCHRYSA Zell.

**E. dissectella** Zell. Meach Lake (Y).

### DICHOMERIS Hubn. (Ypsolophus Fabr.)

**D. ligulellus** Hubn. Montreal VI (W); food plants: apple, plum.

**D. punctidiscellus** Clem. Montreal VI (W).

### ANARSIA Zell.

**A. lineatella** Zell. Montreal VIII (W); Bred from larvae in peaches.

## Family STENOMATIDAE

Medium sized moths, frequently resembling when at rest, the droppings of birds, so closely that it is only when the moth is frightened into flying that the deception becomes apparent.

### STENOMA Zell.

**S. schlaegeri** Zell. Levis (Fy); St. Hilaire VII (W); Montreal VI-VII (W); Montfort VI (C); food plant: oak.

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## Family OECOPHORIDAE

Small sized moths, whose larvae feed on seeds, flowers, or decayed wood, and a few are leaf miners.

### EUMEYRICKIA Busck

**E. trimaculella** Fitch. Quebec (Fy); East Bolton VII (W); St. Hilaire VII (W); Montreal VI-VII (W); St. Margaret VII (W).

### CRYPTOLECHIA Zell.

**C. tentoriferella** Clem. St. Hilaire IX (W); Montreal VIII-IX (W); Rosemere IX (W); food plants: oak, cherry

### DEPRESSARIA Fabr.

**D. applana** Fabr. Kamouraska VIII (W); food plant: archangelica.

**D. atrodorsella** Clem. St. Davids (Fy); Montreal IV-V (W); food plant: beggars' tick.

**D. curvilineela** Beut. Montreal VI (W).

**D. emeritella** Stain. Montreal IX (W).

**D. heracliana** DeG. Metis VIII (W); St. Davids (Fy); East Bolton VIII (W); St. Hilaire VII-VIII (W); Montreal VII-X (W).; food plant: wild parsnip.

**D. lecontella** Clem. Levis (Fy); Montreal IX (W).

**D. pulvipennella** Clem. St. Johns VII (C); Montreal VII (W); food plant: golden rod, Joe Pye weed.

**D. psoraliella** Walsh. Montreal VIII (W).

**D. robiniella** Pack. St. Hilaire IX (W); Montreal IX-X (W); food plant: locust.

### SEMIOSCOPSIS Hubn.

**S. allenella** Wlsn. Levis (Fy); Montreal VI (C).

**S. inornata** Wlsn. Levis (Fy); Montreal VI (W).

**S. packardella** Clem. Levis (Fy).

### OECOPHORA Latr.

**OE. newmanella** Clem. Levis (Fy); St. Hilaire VI-VII (C); Montreal VII (C); Montfort VI (C).

### KEARFOTTIA

**K. albifasciella** Fern. Meach Lake (Y).

### ETHMIA Hubner

**E. longimaculella** Cham. Rigaud (Des).

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## Family BLASTOBASIDAE

A family of very small moths of greyish colour, having a peculiar silken sheen to the wings. The larvae live in seeds, nuts, and buds.

### VALENTINIA Wlsn.

**V. glandulella** Riley. Montreal VI (W); food plant: fallen acorns.

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## Family ELACHISTIDAE

Another very extensive family. The wings are very narrow and the venation degraded. The larvae either live in cases on the leaves, or among seeds or mining the leaves.

### COLEOPHORA Hubn.

**C. corruscipennella** Clem. Montreal VII (W); food plant: strawberry.

**C. cratipennella** Clem. Montreal IX (W).

**C. elaeagnisella** Kearf. Ottawa district VII (G); food plant: elaeagnus argentea.

**C. fletcherella** Fern. Montreal VI (W); food plant: apple.
**C. spissicornis** Haw. Montreal VIII (W); Meach Lake (Y).
**C. tiliaefoliella** Clem. Montreal VI (W); food plant: bass.

### COSMOPTERYX Hubn.

**C. gemmiferella** Clem. Montreal VIII (W).

### SCYTHRIS Hubn.

**S. eboracensis** Zell. Montreal VII (W).

### LYMNAECIA Staint.

**L. phragmitella** Steph. Meach Lake (Y); food plant: cat tail stems.

### MOMPHA Hubn.

**M. eloisella** Clem. Montreal VI (W); Rosemere VI (W); food plant: pith of evening primrose.
**M. subviridescens** Wlsn. Montreal VII (W).
**M. stellella** Busck. Montreal IX-X (W); food plant: seed pods of evening primrose.

### ENDROSIS Hubn.

**E. lacteela** D. & S. Levis (Fy).

### SCHRENKENSTEINIA Hubn.

**S. erythriella** Clem. Gomin Swamp, near Quebec (Fy); food plant: sumac fruit racemes.

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## Family TINEIDAE

The family contains a great many species of varying form and sizes from small to very minute. Larvae often mining or case.bearing.

### BUCCULATRIX Zell.

**B. albicapitella** Chamb. Quebec (Bel); type locality.
**B. canadensiella** Chamb. Quebec (Bel); type locality.
**B. pomifoliella** Clem. Montreal VIII (W); food plant: apple.

### LITHOCOLLETIS Hubn.

**L. aceriella** Clem. Montreal VI (W); Meach Lake VI (Y); food plant: maple.

**L. basistrigella** Clem. Meach Lake (Y); food plant: oak.

**L. fletcherella** Braun. Ottawa district (F. & G.); food plant: oak.

**L. lucidocostella** Clem. Meach Lake VI (Y).

**L. tiliacella** Chamb. Meach Lake VII (Y).

### GRACILLARIA Haw.

**G. alchimiella** Scop. Montreal VII (W); food plant: oak.

**G. elongella** Linn. Montreal IX (W); food plant: alder.

**G. pulchella** Chamb. Quebec (Bel).

### ORNIX Tr.

**O. geminatella** Pack. Montreal VI (W).

### SCARDIA Tr.

**S. anatomella** Grt. Gomin Swamp, near Quebec (Fy).

**S. approximatella** Dietz. Montreal VII (C).

### MONOPIS Hubn.

**M. ferruginella** Hübn. Montreal VII (W).

**M. monachella** Hubn. St. Hilaire VII-IX (W).

### TINEA Linn.

**T. acapnopennella** Cham. Montreal VII (W).

**T. arcella** Fabr. Montreal VI (W); St. Hilaire VII (W).

**T. biflavimaculella** Clem. Levis (Fy); Montreal VII (W).

**T. dorsistrigella** Clem. St. Hilaire VII (W); Meach Lake (Y).

### TINEOLA H. S.

**T. biselliella** Hum. Throughout province, our commonest " clothes moth."

### ADELA Latr.

**A. purpura** Walk. Cowansville (Fy); Montreal IV (W).

## Family HEPIALIDAE

These are medium or large moths, whose larvae bore in roots and stems of plants and trees. The moths are peculiar in that the size and venation of fore and hindwings are similar and the wings are held together in flight, by a lobe or projection from base of forewings, known as the " jugum " instead of the usual spines or frenulum.

The moths fly with a hovering flight, just at dusk.

### HEPIALUS Fabr.

**H. argenteomaculatus** Harr. St. Fabien VII (C); Quebec VI (Bn); Levis (Fy); Compton (Gosse); Orford VII (So); Hull (F); food plant: alder roots.

**H. auratus** Grt. Iron Hill VII (Fy); St. Johns VII (C).

**H. mustelinus** Pack. (gracilis Grt.) Anticosti (Sch); Levis VIII (Fy); Cowansville (Fy); Newaygo VII (So).

**H. purpurascens** Pack. Montreal VII (W).

**H. quadriguttatus** Grt. Metis VIII (W); Rimouski VIII (Gb); Cap a l'Aigle VIII (W); Montreal VII (W).

**H. thule** Streck. Montreal VII (W); food plant: willow roots.

## ALPHABETICAL INDEX TO LOCALITIES

**Anticosti Island,** in Gulf of St. Lawrence.
**Arundel,** Argenteuil County.
**Aylmer,** Wright County; 8 miles above Ottawa.

**Baskatong,** Wright County; 80 miles north of Ottawa.

**Calumet,** Argenteuil County; on Ottawa River, 60 miles north-west of Montreal.
**Cap a l'Aigle,** Charlevoix County; 5 miles from Murray Bay.
**Chateauguay Basin,** Chateauguay County; 9 miles from Montreal.
**Chelsea,** Wright County; on Gatineau River.
**Chicoutimi,** Chicoutimi County; on Saguenay River, 75 miles from its mouth.
**Compton,** Compton County; on Coaticook River, 114 miles east of Montreal.
**Cowansville,** Missisquoi County; 50 miles southeast of Montreal on Yamaska River.
**Cushing,** Argenteuil County; on Ottawa River.

**East Bolton,** Brome County; on Lake Memphramagog.
**Eastman,** Brome County; at foot of Orford Mountain.

**Farnham,** Missisquoi County; 44 miles south-east of Montreal.
**Fox Bay,** a settlement on Anticosti Island.

**Gaspé Basin,** Gaspé County.
**Godbout River,** Saguenay County; on north shore of St. Lawrence River, 225 miles below Quebec.

**Ha Ha Bay,** Chicoutimi County; a stopping place of steamers on Saguenay River.
**Hudson,** Vaudreuil County; a summer resort on the Ottawa River, 35 miles from Montreal.
**Hull,** Wright County; opposite Ottawa, near mouth of Gatineau River.

**Iron Hill,** Brome County; 6 miles from Sweetsburg.
**Island of Orleans,** Montmorency County.
**Isle Jesus,** Laval County; 8 miles north-west of Montreal.

**Kamouraska,** Kamouraska County; on St. Lawrence River, 90 miles north-east of Quebec.

**Lachute,** Argenteuil County; 44 miles west of Montreal, on North River.

**Lacolle,** St. Johns County; 30 miles south-east of Montreal, on Richelieu and Lacolle Rivers.

**Langevin,** Dorchester County.

**Levis,** Levis County.

**Lost River,** Argenteuil County, ; 18 miles from Grenville.

**Magdalen Islands,** in the Gulf of St. Lawrence; north-east of Prince Edward Island and south-west of Newfoundland.

**Magog,** Stanstead County; 88 miles east of Montreal on Lake Memphramagog.

**Mayo,** Labelle County; 30 miles from Ottawa.

**Meach Lake,** Wright County; near Chelsea.

**Metis,** Rimouski County; on Lower St. Lawrence. Most of the species listed were taken near Little Metis a summer resort.

**Montebello,** Labelle County; on Ottawa River, 65 miles west of Montreal.

**Montfort,** Argenteuil County.

**Montmorenci,** Quebec County; 8 miles north-east of Quebec.

**Montreal.**

**Mount Johnson,** Iberville County; 6 miles from St. Johns.

**Newaygo,** Argenteuil County; on Canadian Northern Railway, 1 mile from Montfort.

**North Hatley,** Stanstead County; on Lake Massawippi, a favorite summer resort.

**Oka,** Two Mountains County; on Ottawa River.

**Ormstown,** Chateauguay County; on Chateauguay River, 40 miles south of Montreal.

**Phillipsburg,** Missisquoi County; on Missisquoi Bay.

**Quebec.**

**Rawdon,** Montcalm County; on River Lac Ouareau.

**Rigaud,** Vaudreuil County; on Ottawa River, 41 miles west of Montreal.

**Rimouski,** Rimouski County; on Lower St. Lawrence, 180 miles from Quebec.

**Riviere du Loup,** Temiscouata County; on Lower St. Lawrence 115 miles from Quebec.

**Riviere Rouge,** Montcalm and Argenteuil Counties; flowing into Ottawa River near Grenville.

**Rosemere,** Terrebonne County; 18 miles west of Montreal on River Jesus.

**St. Agathe,** Terrebonne County; 44 miles north-west of Montreal.

**St. David,** Levis County; on St. Lawrence River.

**St. Denis,** Kamouraska County.

**St. Fabien,** Rimouski County; on Lower St. Lawrence, 160 miles below Quebec.

**St. Faustin,** Terrebonne County; 77 miles north-west of Montreal, in the Laurentian Mts.

**St. Henri,** Levis County; 7 miles south of Quebec.

**St. Hilaire,** Rouville County; 22 miles east of Montreal on Richelieu River and at base of Beloeil Mount.

**St. Hyacinthe,** St. Hyacinthe County; 30 miles east of Montreal.

**St. Jerome,** Terrebonne County; 33 miles north of Montreal.

**St. Johns,** St. Johns County; on Richelieu River, 27 miles south-east of Montreal.

**St. Lambert,** Chambly County; on St. Lawrence River, opposite Montreal.

**St. Margaret,** Terrebonne County; 53 miles north of Montreal.

**St. Therese de Blainville,** Terrebonne County; 20 miles north-west of Montreal.

**Shawbridge,** Terrebonne County; on North River, 42 miles from Montreal.

**Sherbrooke,** Sherbrooke County; on St. Francis and Magog Rivers, 100 miles east of Montreal.

**Sorel,** Richelieu County; at mouth of Richelieu River, 52 miles north-east of Montreal.

**Tadousac,** Saguenay County; on North shore of St. Lawrence, at mouth of Saguenay River.

**Three Rivers,** St. Maurice County; at the junction of St. Maurice and St. Lawrence Rivers.

**Wakefield,** Wright County; on Gatineau River, 21 miles from Ottawa.

**Windsor Mills,** Richmond County; on St. Francis River, 86 miles east of Montreal.